



Ackermann clino system 21

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EKERMANN clino by Honeywell

Foreword Dear Business Partners,

You are now holding your own personal copy of our most current Ackermann clino System 21 catalogue for 2007. With these solutions, Ackermann clino has once more documented its market-leading innovation skills and with thousands of installations has proven that security, convenience, and protection of investment are economically realisable.

See for yourself the many new products and improvements which Ackermann clino has put on the market in the past months and will be introducing shortly. For example:

 the new and more cost-effective System Compact CL public washroom alarm kit for disabled washrooms



Sant Pau Hospital, Barcelona • Bethanien Senior's Home, Solingen • Paracelsus Clinic, Zwickau • DRK Children's Clinic, Siegen • University Clinic, Homburg / Saar

Both market and customer orientation as well as competence and innovation are our primary goals. A large number of applicative solutions are available for your individual requirements. One such example: the new intelligent system interfaces to external disciplines such as fire detection technology but also to our proven system clino phon 95. The integration of VoIP/W-LAN for the mobile processing of calls or the connection to emergency call centers has meanwhile become standard for us.

Use this opportunity to talk with us and let us know your specific requirements. Your competent marketing consultant will gladly help you with any questions you might have.

Looking forward to our cooperative and successful teamwork

Your Ackermann clino team

Also take at a look at the wide variety of information on our website www.ackermann-clino.com and register for the customer area.

Abbreviations



= List of contents which the part number includes



Information, important notice
 such as special versions, dependencies etc.



= Packing unit

Notice regarding the packing unit:

- 1. The item will only be sold in packing unit.
- 2. The number of items, which have to be ordered, always refers to the number of packing unit rather than the number of single items.
- 3. The price stated in the catalogue is always the respective price for the packing unit. It is not the price for the single item.

Ingress Protection rating

Degrees of protection against solid foreign objects indicated by the first characteristic numeral

First characteristic brief numeral description:

- 0 Non-protected
- 1 Protected against solid foreign objects of 50 mm diameter and greater
- 2 Protected against solid foreign objects of 12,5 mm diameter and greater
- 3 Protected against solid foreign objects of 2,5 mm diameter and greater
- 4 Protected against solid foreign objects of 1,0 mm diameter and greater
- 5 Dust-protected
- 6 Dust-tight

Degrees of protection against liquid foreign objects indicated by the second characteristic numeral

Second characteristic brief numeral discription:

- 0 Non-protected
- Protected against vertically falling water drops
- 2 Protected against vertically falling water drops when enclosure tilted up to 15°
- 3 Protected against spraying water
- 4 Protected against splashing water
- 5 Protected against water jets
- 6 Protected against powerful water jets
- 7 Protected against the effects of temporary immersion in water
- 8 Protected against the effects of continuous immersion in water
- The use of additives (e.g. cleaning agents) can result in deviations to the IP protection classifications given in this catalogue.



Alarm Kit for Public Washrooms

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Alarm Kit for Public Washrooms

System Compact CL

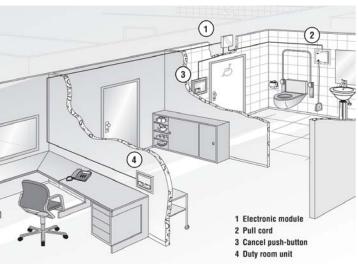
General

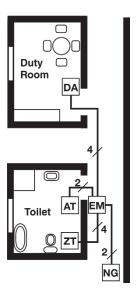
In order to give disabled people the possibility of calling for help in public washrooms, an emergency call possibility must be installed in these rooms. An initiated call is signalled for example to the doorman or central control employees in this building both optically and acoustically. Thus support for people in need of help is guaranteed. The Alarm Kit for Public Washrooms is the ideal solution for these situations. As a complete system with pull cord, cancel unit and control electronics, as well as a power supply, these components are perfectly tailored to each other. The installation of the Alarm Kit for Public Washrooms is very easy and can be carried out very quickly.

Functional Description

A call from a disabled person by means of pull cord can be acknowledged by the flashing of an integrated reassurance lamp and a corridor lamp mounted outside of the washroom. The duty room unit installed in the control room or in a break room signals the corresponding staff of the call optically via the flashing of a red control lamp and acoustically via a buzzing signal. The call can be fed into a building / hazard detection system by way of an integrated, floating relay contact. The initiated call can be acknowledged at the duty room unit, i.e. the acoustic signal is temporarily suppressed. The call can be reset only in the washroom by actuation of the cancel push-button.

Unlike the clino opt 99 Alarm Kit for Public Washrooms (Part-No. 76910C1), the CL series Alarm Kit for Public Washrooms is not expandable!





Example of Application: System Compact CL in a public washroom for disabled persons

76910D1

System compact CL





The System Compact CL consists of:

- 1 pull cord with red LED reassurance lamp and 2 m PVC cord, including cover plate, cover plate frames and sealing kit
- 1 cancel push-button (green) and LED reminder lamp green, including cover plate and cover plate frames
- 1 duty room unit with LED control lamp, red, sound generator and acknowledgement push-button, including cover plate and cover plate frames
- 1 electronic module CL with integrated corridor lamp with LED technology and control electronics as well as a relay contact for controlling of building management system
- 1 single-phase safety power supply with low-voltage supply fuse
- 1 operating instructions

Technical data

Input voltage Output voltage Operating temperature Weight Installation depth Colour Dimensions (WxHxD) Dimensions (LxWxH) power supply unit 230V / 50Hz power supply unit 24V DC / 12W / 0.5A power supply unitt max. 50°C electronic module 67g electronic module 25mm cover plate / cover frame white - RAL 9016 electronic modules: 71 x 10 x 71mm power supply unit 86 x 41 x 22mm

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General Information

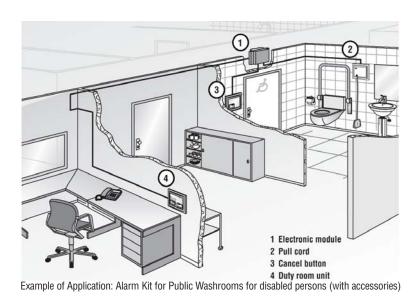
Nurse call systems present an essential factor in washrooms of public buildings and offer disabled people the chance to call for help. Therefore a nurse call system must be installed in such rooms. When a call is actuated, it is either indicated acoustically or visually at the porter's office or at the information desk to guarantee immediate assistance.

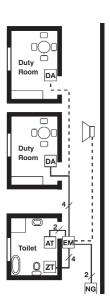
The easy-to-install alarm kit is the ideal solution for this type of application, as all modules are perfectly tailored to each other and form a stand alone system including pull cord, cancel unit, control electronics and power supply unit. The system can be extended, so that calls can be indicated at differently located indicator units.

Operation Manual

A call that is actuated from a disabled person by using the pull cord is indicated by a flashing reassurance lamp and by the corridor lamp. The duty room unit, which is installed in the nurse station, porter's room or any other common room, optically indicates the call by means of a red flashing control lamp combined with an acoustic signal (buzzing). The call can be acknowledged at the duty room unit, with the effect that the acoustic signal is temporary withheld. For call cancelling the cancel push-button in the WC must be pressed. If the call is not cancelled, acoustic signalling is automatically reactivated.

For further extension modules such as the 70045A3 pull cord, please see page 87.





76910C1

Alarm Kit for public washrooms



- 1 pull cord with LED reassurance lamp, red and 2m nylon cord including cover plate, cover plate frame and flush mount backbox
- 1 cancel button and LED reminder light green including cover plate, cover plate frame and flush mount backbox
- 1 duty room unit for duty rooms with LED control light red sound generator and acknowledgement button, including cover plate, cover plate frame and flush mount backbox
- 1 electronic module with integrated corridor lamp, bulb lamp and system electronics, including installation bracket and flush mounting combination box
- 1 single-phase safety power supply with low voltage supply fuse

Technical data

Mains voltage230V ACNominal frequency50 to 80HzRated current1AOperating voltage24V DCColourpull cord, c

pull cord, cancel push-button white, RAL 9016 Compact Call Set housing grey RAL 7040

indicating unit white RAL 9016 plastic base, grey, RAL 7040 white lamp cover, translucent

72515A7

Zone indicator lamp with 1 lamp cover



Zone indicator lamp with 1 neutral lamp cover and 2 lamp cells.

Technical data

Fixation surface mounting

Class of protection IP 20

Colour plastic base, grey - RAL 7040 lamp cover, white, translucent

Material PC+ABS - FR lamp cover PC

Dimensions (WxHxD) 158 x 110 x 87 mm

73640J2

||||||||||||||||||||||||| Parallel duty room unit



The parallel duty room unit serves as an extension module for the alarm kit for public washrooms.

Accessories

88881P3

Cover plate for parallel duty room unit

88881P3

Cover plate for parallel duty room unit



1 cancel push-button - white - with symbol

Accessories

88914A3 Mounting frame for cover plate (single) 88914B3 Mounting frame for cover plate (double) 88914C3 Mounting frame for cover plate (triple)

83002H3



Small buzzer for call signalling



Small buzzer for surface mount installation, 24 V DC. It serves as a signalling device and can be installed in dry and damp rooms. It is a modern encapsulated system, which is suitable for permanent operation. The housing is made of impact-resistant thermoplastic (ABS) - grey -.

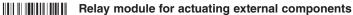
Technical data

Rated voltage 24 V DC

Sound level approx. 95dB (A) in 1m distance

Type of protection

72611D





Technical data

Maximum loading capacity 24 V / 5 ampere

Accessories

18972AV fm combination box with extruded plaster cover

89899A3 Cover plate for relay module

Colour Dimensions (WxH)

Single dummy cover plate with 2 bore holes.

89849F3

89899A3

Cover frame (single), suitable for cover plates and intermediate frames (69x69mm).

white - RAL 9016

90 x 90mm

Technical data

Cover plate for relay module

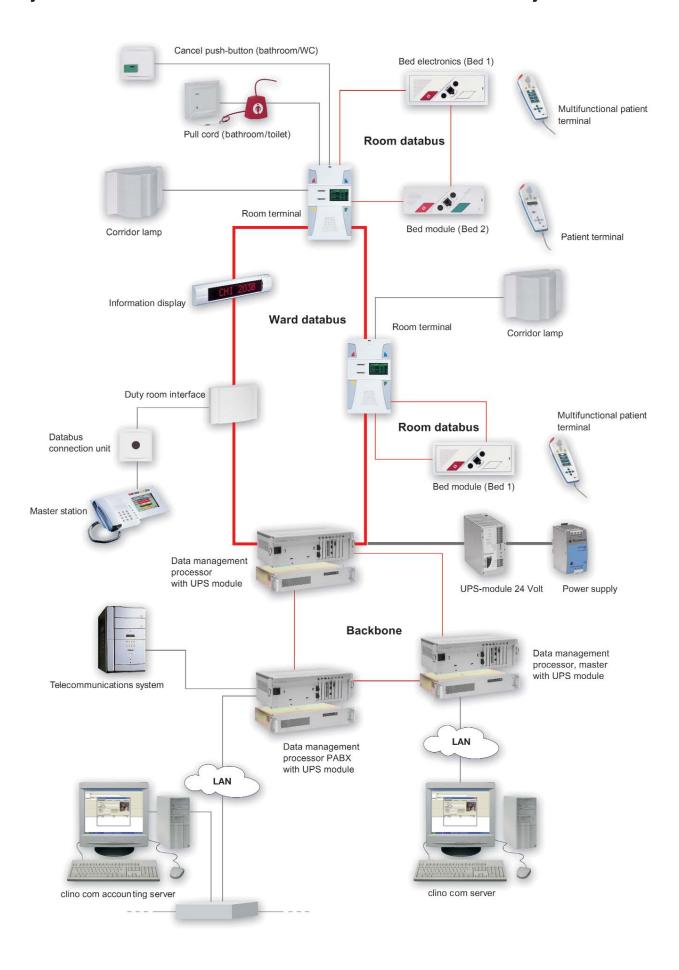
Technical data

PC+ABS-FR Material white - RAL 9016 Colour Dimensions (WxHxD) 81 x 81 x 6,5 mm



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System Overview



System 21 - clino phon / clino com 21

to the clino com 21 multimedia communication system.

Function

System 21 is an optical as well as acoustic nurse call system, which allows answering of calls direct to the person having actuated the call. Thus, extra walking time can be minimised and in case of an emergency, additional help is within reach. In addition, corridor lamps and room terminals are provided with indicating elements. Information displays, display modules or extended system per message transmission (similar to text messaging) to inform via calls, emergency calls and alarm calls. The system does not only enable communication in each room but also bedside communication with free and discreet speech function. For this purpose, microphones and loudspeakers have been added to the room terminals, bed electronics and patient handsets.

The System clino phon and/or clino com 21 is a multifunctional communication system of the latest generation. Besides its nurse call function, the clino phon 21 system provides functions as discreet speech communication, light control, radio and TV control, while the clino com 21 system additionally allows patient telephony and account settlement via the standardised glass or plastic fibre infrastructure. Both systems completely comply with the DIN VDE 0834 Part 1 and Part 2: 2000-04. The System 21 can be applied in institutions, which intend to set up a cost effective multifunctional communication system. This might be appropriate in hospitals, nursing homes, residences for handicapped people or rehabilitation clinics. Through the addition of only a few modules and terminals, the system clino phon 21 can be easily extended

The clino com 21 system is also equipped with a multifunctional patient terminal, which allows patient telephony and account settlement via a rechargeable patient card. The patient card may also be used for further systems such as TV, Internet and other charges.

System Layout

The System 21 layout is based on a structured 3-level hierarchy and each level is provided with a fail-safe loop structure. The zone level (ward level) consists of the backbone, which forms the communication platform for the data management processors (DMPs). Thus, calls can be transmitted between zones and wards within the whole system. The next level includes the ward bus and enables communication within the ward. The components connected to the ward databus are required to link the call devices in each room via the bed databus provides for and functionally monitors.

Backbone

The primary level within the hierarchy is represented by the backbone, which supplies a maximum of 20 data management processors. Up to 2 ward controllers can be connected to the DMPs, each of which in turn supplies two wards. Thus, a maximum of 80 wards can be supplied when connected to the System 21. Further, up to 254 logical circuit zones (subzones) can be configured. Besides offering a wide functional range for transmitting calls or discreet speech, the backbone also supports 16 audio channels and up to 120 telephone calls within the system. Audio channels as well as telephone channels are integrated in the system via a special DMP. For the provision of this bandwidth, the bakkbone requires fiber optic cabling based on the multimode fibers 50/125μ and/or 62.5/125μ available on the market.

Data Management Processor

The entire databus communication within the clino phon 21 / clino com 21 communication system are taken over by the data management processors. They are used to connect and network the ward databusses or to make the interfaces to the audio system, the telecommunications equipment (S2M or S0) and the nurse call server, accounting server and cash machines. For each ward within the DMP network, four audio channels are available. Depending on the requirements, the DMP installation can either be centralised or decentralised.

Ward Databus

The ward databus connects the indicating and control units in patient rooms, duty rooms and other monitored rooms and corridors. Depending on its application, the room control unit may serve as an electronic module without speech facility or as a room terminal for rooms with speech facility. The terminal is connected to the call equipment in each room. Information displays are also operated on the ward databus. All in all, a maximum of 74 electronic modules or room terminals can be connected, and up to 254 addressable modules such as room terminals, electronic modules, display modules and bed modules can be operated on the ward databus. Each bus device is addressable and enables individual identification. The ward databus requires a system cable with 2 plastic fibres.

Room terminal, electronic module, duty room interface

The room terminal or electronic module for rooms without speech facility takes over total control of the call functions within the room. This includes not only call identification as well as call logging, but also the presence function with call transfer for the nursing staff. For an efficient care service, the room terminals allow speech communication with patients or residents, as well as between the nursing staff. Answered calls are acknowledged via the function buttons, whereby normal calls, as opposed to emergency or alarm calls, can be remotely terminated. The room terminal /electronic module also contains all the terminal points for the room wiring. This includes operating components at the bed, in the bathroom, as well as a corridor lamp connected to the room terminal - in the electronic module, the corridor lamp is already integrated. For controlling organisation procedures, the duty room is provided with a master station, which is connected to the System 21 network by means of a duty room interface.

Room Databus

A maximum of 4 bed modules or 6 bed electronics such as bed module including patient terminal and bed electronics including patient handset can be connected to the room databus. Individual calls actuated directly from the bed can be identified via the address of each call module. Electronic modules allow call modules to be connected as closed-circuit monitored call push-buttons, cancel push-buttons as well as call/cancel push-buttons.

Room Equipment

Various devices can be installed in the rooms, for example, call modules, call push-buttons, pear push-buttons and pull cords for releasing calls, as well as cancel push-buttons for cancelling calls. For the system clino phon 21 with discreet speech, bed modules in connection with patient handsets can be installed at the patient's bed. In addition to their call and voice communication function, the patient handsets enable patients to switch the light on/off as well as to control radio and TV channels. For clino com 21 systems, the bed module is equipped with the corresponding patient terminal. An auto-release plug mounted on the pear or multiple push-button, as well as on the patient handset / patient terminal, prevents damage of the cord. The information stored in the nurse call system can be shown on room terminals. Existing calls are indicated according to their priority in plain text. If there are no calls in the system, presences are indicated.

System Interfaces

The clino call paging or clino call DECT wireless telephone system can be connected to the System 21 nurse call system via the nurse call server. Thus, existing calls on the nurse call system can be transferred to the staff pocket pager or DECT phone device, indicating type of call, room number and bed identification if available. Additionally, all system messages are logged on the nurse call server and, if necessary, forwarded to further operating computers for graphic display. For this, operating computers are connected to the nurse call server via a network (LAN). Internal messages such as fire alarms or technical alarms can also be connected via interface units. The connection to a European Instabus system installation is possible. The available interfaces provide the possibility of integrating further third-party systems.

System Safety

In case of power failure, calls are stored for approximately 1 hour. As soon as the power is switched on again, presences and calls which were set prior to power failure are indicated.

In case of a failure occurring in the data management processors (DMP), the system operates in an emergency mode, which involves the functions normal and emergency call, cancellation, presence indication and call transfer to rooms where presence has been set, as well as the visual indication of the corridor lamps. The DMP monitors all active units and displays any malfunctions as a collective message or as individual messages on the information display.

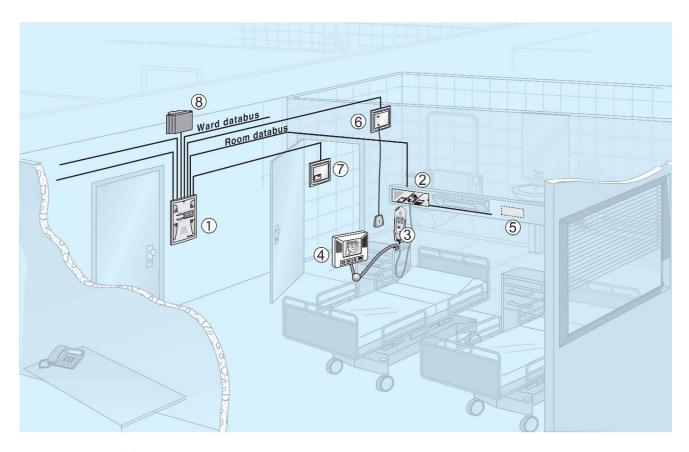
The lamp outputs of the electronic modules, room terminals and DMPs are short-circuit protected. All these units are fitted with a "self-healing" fuse. This not only protects the room control units (i. e. electronic modules, room terminals) but also the equipment in the room. The electrical safety and EMC requirements of all the system components are in accordance with the CE directives. The IP protection classes indicated in the catalogue refer to the completely assembled appliance including cover plate and mounting frames.

Maintenance and Service

The system is normally configured via the nurse call server. A data management processor can be replaced without difficulties. The new controller accesses the data stored in the network user to configure itself or it receives the configuration data from the nurse call server. The room terminals can be replaced at any time without interrupting system operation and, with identical installations, they can be installed or replaced within the entire system. Remote management programs can be used for remote configuration and/or diagnostics of fault reports.

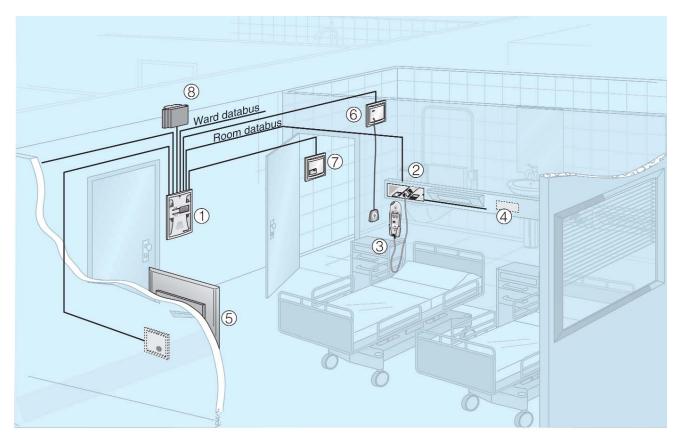
Technical data	
Voltage supply	24 V (+/- 10%)
Current consumption	Bei der Bestimmung der Stromaufnahme wird von einem Gleichzeitigkeitsfaktor von 0,2 ausgegangen, d.h. 20% der max. Stromaufnahme (z.B. Normalruf) und 80% min. Stromaufnahme (Ruhezustand).
max. distance between 2 DMPs	1000 m (50/125µ)
Max. number of data management processors (backbone)	20
Max. number of zones per zone controller	250
Max. distance between 2 ward bus devices	50 m
Max. number of ward bus devices	74
Max. number of duty rooms (per zone)	2
Max.distance between 2 corridor bus devices	20 m (twisted 0.6mm pair of wires)
Max. number of modules on corridor databus	4/6
Max. number of radio channels (ward bus / backbone)	16
Max. number of speech channels nurse call / telephony (ward bus)	8 /32
Max. number of speech channels nurse call / telephony (backbone)	16 / 120
Max. number of speech channels nurse call / telephony / audio (corridor bus)	4 in all
Max. number of ISDN B channels (corridor bus)	4 in all





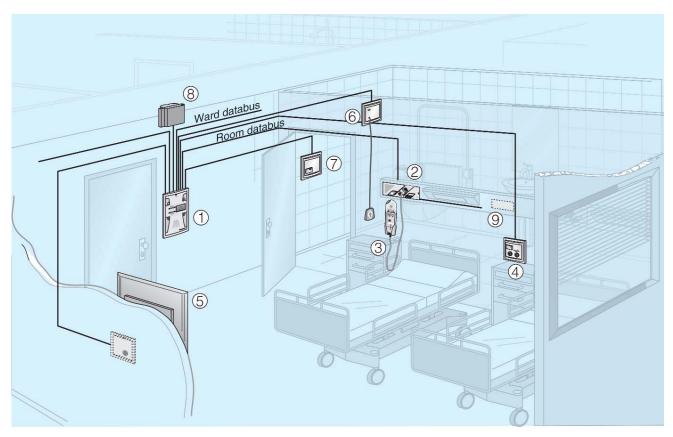
Pos.	Article	Part-No.
1	Room terminal with display, doctor call Fm connection board for room terminal	76962 B1 76959 B1
2	MSU bed module MSU connection board for BM and BE (ribbon cable) Distributor for medical service unit (ribbon cable)	74181 B2 74179 D4 74178 A1
3	Patient terminal with touch display and card reader Bracket to deposit the patient handset / terminal	74136 A1 74131 B1
4	TV equipment clino vision	on demand
5	Actuator unit AE230-3 (3 contacts 230VAC) Actuator unit AE230-2 free (2 floating contacts)	72631 A1 72631 D1
6	Call button with pull cord and knob Cover plate for call switch with pull cord Frame for cover plates (single)	70045 A3 88880 A3 88914 A3
7	Cancel button with green push-button Cover plate for call switch with pull cord Frame for cover plates (single)	73642 C 88881 H3 88914 A3
8	Corridor lamp with 4 lamp cells - white	72553 D1

Patient Room - Multimedia - TV per Room



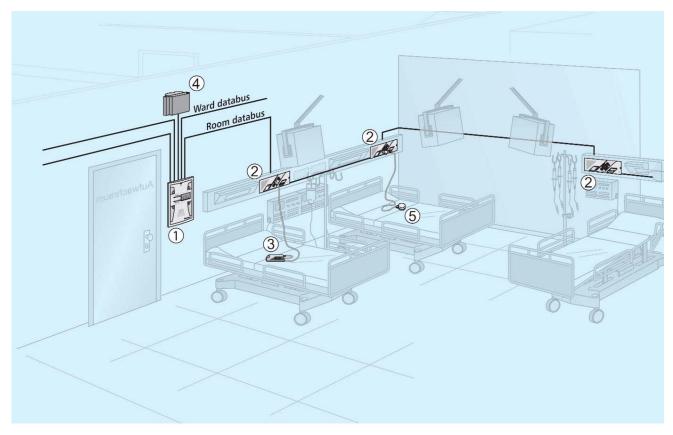
Pos.	Article	Part-No.
1	Room terminal with display, doctor call Fm connection board for room terminal	76962 B1 76959 B1
2	MSU bed module MSU connection board for BM and BE (ribbon cable) Distributor for medical service unit (ribbon cable)	74181 B2 74179 D4 74178 A1
3	Patient terminal with touch display and card reader Bracket to deposit the patient handset / terminal	74136 A1 74131 B1
4	Actuator unit AE230-3 (3 contacts 230VAC) Actuator unit AE230-2 (2 mutually contacts 230VAC)	72631 A1 72631 B1
5	TV equipment clino vision	on demand
6	Call switch with pull cord and knob Cover plate for call switch with pull cord Frame for cover plates (single)	70045 A3 88880 A3 88914 A3
7	Cancel push-button - PR 1 - Cover plate for cancel push-button (green button) Frame for cover plates (single)	73642 C 88881 H3 88914 A3
8	Corridor lamp with 4 lamp cells - white	72553 D1



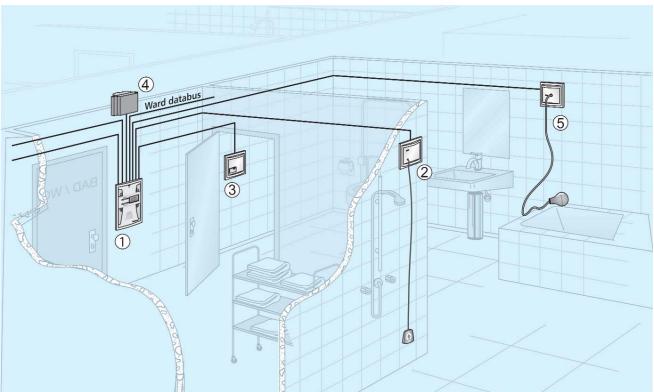


Pos.	Article	Part-No.
1	Room terminal with display, doctor call Fm connection board for room terminal	76962 B1 76959 B1
2	Bed electronics for medical service unit Connection board for medical service unit Distributor for medical service unit (ribbon cable)	74183 B1 74179 D4 74178 A1
3	Patient handset Bracket	74135 A1 74131 B1
4	Optional: Call unit with auxilliary plug contact Cover plate with push-button (red) for units with 2 sockets Frame for cover plates (single)	73075 B 88881 J3 88914 A3
5	TV equipment clino vision	on demand
6	Call switch with pull cord and knob Cover plate with button -green- Frame for cover plates (single)	70045 A3 88881 H3 88914 A3
7	Cancel push-button - PR 1 - Cover plate with button -green- Frame for cover plates (single)	73642 C 88881 H3 88914 A3
8	Corridor lamp with 4 lamp cells - white	72553 D1
9	Actuator unit AE230-3 (3 contacts 230VAC)	72631 A1

Patient Room with 1 Speech Facility / Selective Call Cancelling



Pos.	Article	Part-No.
1	Room terminal with display, doctor call Fm connection board for room terminal	76962 B1 76959 B1
2	MSU bed electronics System 21 MSU connection board for BM21 and BE21 (ribbon cable) Distributor for medical service unit (ribbon cable)	74183 B1 74179 D4 74178 A1
3	Multiple push-button, 1 call $+$ 1 light button (NCC), 3m, auto-release "L"	74153 B7
4	Corridor lamp with 4 lamp cells	72553 D1
5	Optional: Pneumatic pear push-button (NCC) 7-pin plug, 1.9m	70007 A



Ward Washroom

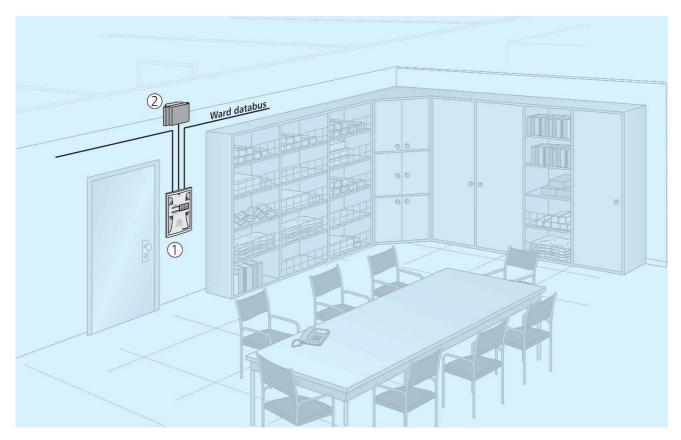
Pos.	Article	Part-No.
1	Room terminal with display, doctor call system 21 Fm connection board for room terminal	76962 B1 76959 B1
2	Call switch with pull cord and knob Cover plate for call switch with pull cord Frame for cover plates (single)	70045 A3 88880 A3 88914 A3
3	Cancel push-button - PR 1 - Cover plate with button -green- Frame for cover plates (single)	73642 C 88881 H3 88914 A3
4	Corridor lamp with 4 lamp cells - white	72553 D1
5	Optional: Pneumatic call push button Cover plate for pneumatic call push-button Frame for cover plates (single)	70006 C 88880 C3 88914 A3

Visitor WC



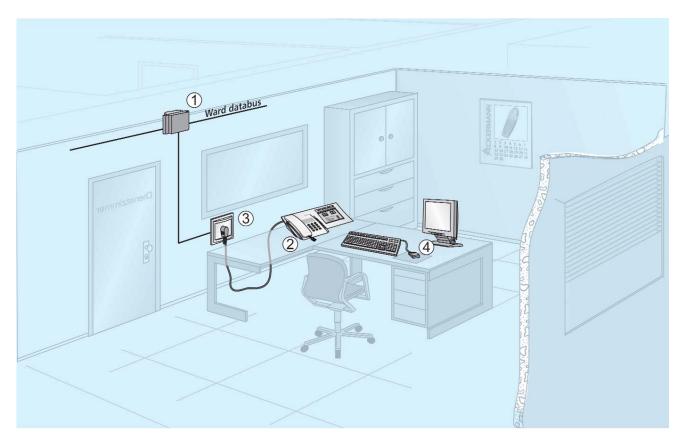
Pos.	Article	Part-No.
1	Room electronic module (4 lamps) Connection board for room electronic module, white	72580 D1 72580 Z1
2	Cancel push-button - PR 1 - Cover plate with button -green- Frame for cover plates (single)	73642 C 88881 H3 88914 A3
3	Call switch with pull cord and knob Cover plate for call switch with pull cord Frame for cover plates (single)	70045 A3 88880 A3 88914 A3

Day Room

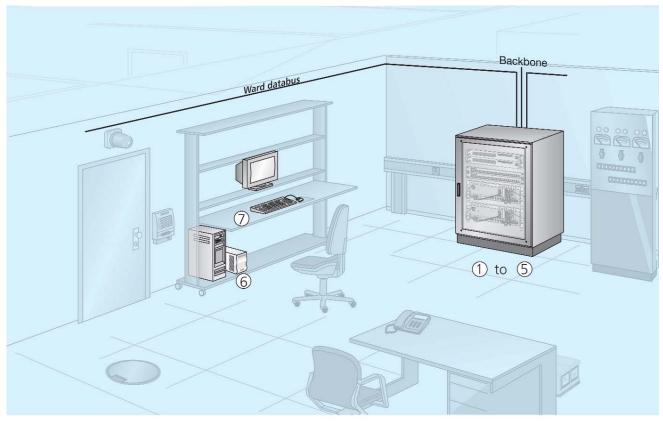


Pos.	Article	Part-No.
1	Room terminal with display and radio Fm connection board for room terminal	76962 C1 76959 B1
2	Corridor lamp with 4 lamp cells - white	72553 D1

Duty Room with Service PC and Speech Facility



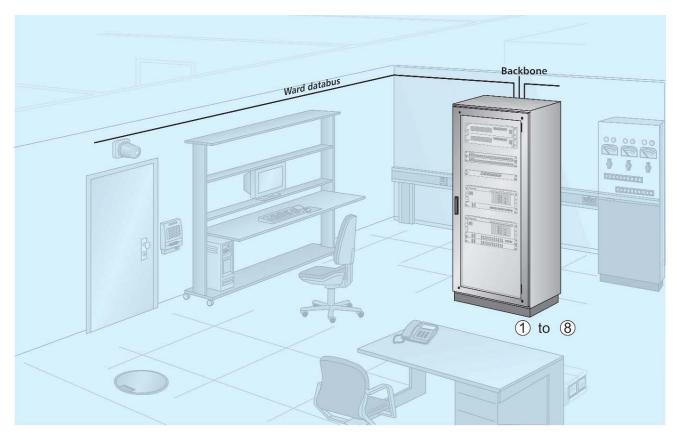
Pos.	Article	Part-No.
1	Duty room interface (4 lamps), white Connection board for duty room interface - white	72582 D1 72582 Z1
2	Master station system 21	74430 B1
3	Databus connection unit for master station Cover plate for bus connection unit Frame for cover plates (single)	73070 A 88911 J3 88914 A3
4	Operating computere incl. accessories	on demand



Cable Spreading Room as a Master Manifold with Radio

Pos.	Article	Part-No.
1	Data management processor with ward databus controller Distribution cartridge for data management processor 74610 A 19" mounting accessories for DMP with distribution cartridge	74610 A 74610 Z2 74610 Y2
2	Ward databus controller	74620 A
3	Audio interface	74622 A
4	UPS module 230V AC (19" installation)	76089 AC
5	Distribution cabinet 22U	on demand
6	UPS module 230V AC (freestanding device)	7608903
7	clino com Server tower housing incl. accessories	on demand

Cable Room as a Master Manifold with Radio and Telephony



Pos.	Article	Part-No.
1	Data management processor with ward databus controller Distribution cartridge for data management processor 74610 A 19" mounting accessories for DMP with distribution cartridge	74610 A 74610 Z2 74610 Y2
2	Ward databus controller	74620 A
3	Data management processor with PABX interface - S2M Distribution cartridge for data management processor 74610 B/C 19" mounting accessories for DMP with distribution cartridge Audio interface	74610 B 74610 Z3 74610 Y2 74622 A
4	UPS module 230V AC (freestanding device)	7608903
5	UPS module 230V AC (19" installation)	76089 AC
6	Distribution cabinet 42 U	on demand
7	clino com 21 Server 19" housing incl. accessories	on demand
8	Accounting server 19" housing incl. accessories	on demand

Reception - Information Desk



Pos.	Article	Part-No.
1	Automated pay desk clino com 21	on demand
2	Cash terminal incl. software and card reader for clino com 21 patient cards	on demand
3	Patient card clino com 21	79821 A
4	Accounting server incl. accounts administration software	on demand

Controller

74610A

Data management processor with ward databus controller



Features

- Central processor unit (CPU) with Ethernet connection to the nurse call / accounting server
- · Backbone controller (connection to further
- Serial interface
- 1 ward databus controller for connecting two ward databusses with up to 74 devices each
- · With one free slot for either 1 additional ward databus controller or 1 audio interface
- · With one free slot for audio interface

Data management processor (DMP) with ward databus controller as the central control unit of the communication system. For communication with the individual system components in the wards as well as a connection to the nurse call server. Manages all configuration data of the components in local files and transmits changed and new parameters to the active control units (room terminal, room-electronics module etc.) on demand. Transmits system messages to the nurse call server and distributes communication information within the respective ward databusses. Control of two-way communication connections between the end units (room terminal, patient handset etc.) as well as transmission of radio system programs in the entire communication system. Management of system services such as interconnections, collective announcements and function monitoring of all components. Automatic update in the case of replacement of faulty components and interface (function) during firmware updates such as room terminals etc. Networking of several data management processors via a backbone. Wall-mounted or alternatively inside the 19" distribution cabinet. The connection to the corresponding distribution cartridge takes place via the included patch cables. Up to 4 ward databusses with a maximum of 74 databus devices each i.e. room terminal, electronic module or information display can be connected per DMP.

Technical data

Installation Height: < 4 U (1 U = 44.45 mm)

Accessories

Ward databus controller 74620A 74622A Audio interface

74610Z2 Distribution cartridge for data management processor 74610A 74610Y2 19" installation accessories for DMP with distribution cartridge 74610Y1 Sm connection housing for DMP with distribution cartridge

74610B



Data management processor with PABX interface - S2M



Features

- With 2 x S2M interfaces to connect the PABX system via QSIG protocol
- With 1 free slot for audio interface
- With 1 free slot for PABX interface or audio interface

Data management processor (DMP) for PABX and audio interface as communication system link (DMP) to telecommunication installation via up to 4 S2M channels with QSIG logging as well as optionally to the radio system control unit. Acts as an interface to the accounting server and manages the patient accounts available in the system (including patient cards). The DMP forwards requests and transactions from the System clino com 21 to the accounting server and distributes communication data to the respective end units (room terminal, patient terminal, master station). Implementation of access authorization from patient accounts to telephony, Internet and TV and forwarding of occurring connection fees. Telephone channel control of incoming and outgoing phone calls and Internet connections (only via S0) as well as infeeding of radio system programs into the System clino com 21. The integration of the DMP with PABX interface into the communication system is carried out via the backbone. It is mounted in a 19" distribution cabinet and the connection to the corresponding distribution cartridge is carried out via the included patch cable.

Technical data

Installation Height: < 4 U (1 U = 44.45 mm)

Accessories

PABX interface - S2M 74621A 74622A Audio interface

74610Z3 Distribution cartridge for DMP 74610B/C

74610Y2 19" installation accessories for DMP with distribution cartridge 74610Y1 Sm connection housing for DMP with distribution cartridge

74610C

Data management processor with PABX interface - S0



Data management processor as 74610B, but with ISDN interface.

Accessories

74621B PABX interface - ISDN Audio interface

74610Z3 Distribution cartridge for DMP 74610B/C

74610Y2 19" installation accessories for DMP with distribution cartridge 74610Y1 Sm connection housing for DMP with distribution cartridge

Features

- With 4 x S0 ISDN interfaces to connect the PABX system via ISDN
- With 1 free slot for audio interface
- With 1 free slot for PABX interface or audio interface

74620A |||||||||||||||||| Ward databus controller



Ward databus controller plug-in card to extend the data management processor by two ward databusses.

Features

• 2 outputs for the ward bus for max. 74 databus devices each

74621A PABX interface- S2M



The PABX interface constitutes the interface between the PABX unit and the clino com 21 system. The interface is used in the data management processor with PABX interface.

Technical data

Version PABX interface with S2M interfaces



interface, patch cable

Features

 With 2 x S2M interfaces to connect the PABX system via QSIG protocol

74621B

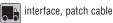
|||||||||||||||||| PABX interface - S0 (ISDN)



The PABX interface constitutes the interface between the PABX-system and the clino com 21 system. The interface is used in the data management processor with PABX interface.

Technical data

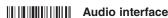
PABX interface with 4 x S0 interfaces Version



Features

• With 4 x S0 (ISDN) interfaces to connect the PABX system via ISDN

74622A





The audio interface converts analog input signals into digital audio data which is fed into the clino com network. The interface is normally used in the data management processor with PABX interface.

Technical data

Version

Audio interface for 8 audio inputs



interface, patch cable

74610Z2



Distribution cartridge for data management processor 74610 A



The distribution cartridge contains the central cabling of the communication system. A separate distribution cartridge, providing mounting points for FO, FO-POF and copper cables, is required for each data management processor. Connection to the data management processor is set up via patch cables.

Technical data

Height

2 RU (including installation kit)

Accessories

74610Y1

Sm connection cabinet for DMP with distribution cartridge 74610Y2 19" mounting accessories for DMP with distribution cartridge

74610Z3





The distribution cartridge contains the central cabling of the communication system. A separate distribution cartridge, providing mounting points for FO, FO-POF and copper cables, is required for each data management processor. Connection to the data management processor is set up via patch cables.

Technical data

Height 2 RU (including installation kit)

Accessories

Sm connection cabinet for DMP with distribution cartridge 74610Y1 74610Y2 19" mounting accessories for DMP with distribution cartridge

74610Y2

19" mounting accessories for DMP with distribution cartridge



Mounting accessories for the data management processor suitable for installation in a 19" data cabinet including a pull out rail for conveniently mounting the data management processor with distribution cartridge.

Technical data

Installation

2 RU

74610Y1



Sm connection cabinet for DMP with distribution cartridge



Wall housing for integrating a data management processor as well as a distribution cartridge, suitable for surface mounting.

System Cables

89734R2



System cable for the ward databus, 400 m cable drum



System cable for the ward databus as a 4-wire, halogen-free system cable for 24V DC voltage supply (2 x copper stranded wires) and data and audio transmission (2 x FO cable POF).

Technical data

Bending radius Data communication

35 mm minimum 10 Mbit/s for a max. length of 50 m

Cable diameter 8.5 mm

Rated cross-section (copper) 2.5 mm² / strand Colour green plastic sheath Fire load 1.394 MJ/km

Accessories

82900AA FO cable plug -black-82900AB FO cable plug (POF) -blue-

89734R1



System cable for the ward databus, 100 m ring

as 89734R2, but as 100 m ring.

89734L2

System cable for the corridor databus, 400 m cable drum



System cable for the corridor databus as a 3-wire, halogen-free system cable for 24V DC voltage supply (2 x copper stranded wires) and data and transmission (1 x FO cable POF).

6 mm

Technical data

Diameter

Data communication 5 Mbit/s for a max. length of 20 m

Bending radius35 mm minimumRated cross-section0.5 mm² / strandCablelength: 400 mColourgreen plastic sheath

Fire load 720 kJ/m

Accessories

82900AA FO cable plug - black -82900AB FO cable plug (POF) - blue -

89734L1 System cable for the corridor databus, 100 m ring

as 89734L2, but as 100 m ring.

89734J2 System cable for the actuator bus - 400 m cable drum



System cable for the actuator bus to transmit the control signals (1 x FO cable POF with protective iacket).

The maximum cable length leading to an actuator is 10 m.

Technical data

Diameter 4.4 mm
Fire load 320k j/m
Data communication 5 Mbit/s
Bending radius 35 mm minimum
Cable 100 m
Colour green plastic sheath

Accessories

82900AA FO cable plug - black -82900AB FO cable plug (POF) - blue -

89734J1 System cable for the actuator bus, 100 m ring

as 89734J2, but as 100 m ring.

89734P1 HCS Fiber optic cable,150 m



HCS fiber optic cable for the connection of two ward databus devices (room terminals, electronic modules or also zone controllers in System 99), which are installed spatially apart from each other. The HCS fiber transmits all speech and data signals on the ward databus.

Technical data

Data communication 10 Mbit/s
Bending radius min. 100 mm/35 mm
Cable cross-section 4 mm x 7 mm

82900AA



Installation Accessories

 ${\sf FO}$ cable plug for the system cable – black – ${\sf POF}$ plug to preassemble system cables and to connect the ward and corridor databus to the corresponding module inputs and outputs.



Accessories

82950B1

Polishing set for optimum cable insulation

82900AB





as 82900AA, but blue-coloured.



82950A1



Wire stripping tool for POF-FO cable (2)



Wire stripping tool for POF-F0 cable for easily handling POF cables.

82950A2



Wire stripping tool for POF-FO cable (1)

Wire stripping tool for POF-FO cables for easily handling POF cables.

82950A3

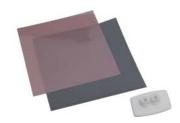
Wire cutting tool for POF-FO cables

Wire cutting tool for POF- FO cables for easily handling POF cables.



82950B1

Wire Polishing Tool for POF-OWG



For optimising the surface quality of the POF cables as well as improving connection quality and reducing damping produced during cable production. Consists of polishing adapter as well as 2 sheets of sandpaper.

Configuration / Service Computer / Software

on request

Nurse call server system 21



Features

minimum configuration:

- midi-tower casing
- mainboard with Pentium PIV Celeron 2 GHz or equivalent• min. 512MB RAM
- · disk drive (FDD)
- 1* hard drive (HDD) min. 40 GB
- DVD-CDR/RW drive (including software)
- VGA graphics card (min. 32 MB)
- interfaces 2* RS232, 1* parallel, USB
- 2* LAN Ethernet (10/100 MBit)
- ISDN terminal adapter
- mouse and keyboard
- DCF-77 radio clock
- Windows XP Professional operating system
- remote diagnostics / configuration software
- system backup software
- · Ackermann 21 system software

Nurse call system operating computer for the configuration, display, operation and logging in System 21. Additionally as an interface to third-party systems such as paging systems, EDP, ZLT etc. Consists of computer with keyboard, mouse, HDD, FDD, DVD-CDR/RW, and interfaces (serial, LAN, USB).

Equipped with application software for following functions

- System 21 configuration tool
- allocation of room configuration
- definition of functions and parameters of the nurse call system
- set-up of call types, call type groups, call type upgrading
- configuration of actuators for the control of external systems (i.e. light, blinds)
- set-up of radio and TV programs
- service functions
- database management system for data storage
- system management tools for system analysis
- network functions for system access
- freely configurable services (zone networking)
- allocation of temporally defined services
- selection of call type groups for services
- definition of targeted forwarding messaging between nurse call system zones
- freely configurable announcement functions (collective announcements)
- selection of recipients for collective announcements
- fault monitoring and reporting (according to DIN VDE 0834)
- graphic and tabular call indication ordered according to priority, call type and time of call
- presence report "AW1" and "AW2"
- calls (normal call, public washroom call, doctor call, priority call etc.)
- fault reports (according to DIN DVE 0834 application area II)
- call answering (only in connection with a master station)
- call cancelling (only in connection with a master station)
- selection of rooms (only in connection with a master station)
- collective announcements in rooms or selected recipients (only in connection with a master station)
- input and management of patient data including management of bed allocation (manual)
- access control via user ID (if required)
- data output to connected printer

Ontional:

- message transmission to a wireless messaging system (i.e. paging system -PSA- or telecommunication installation -DECT-)
- freely configurable recipient addresses for messages from nurse call system zonesdefinition of the display format of the messages to be transmitted
- set-up of different services (i.e. day / night service)
- allocation of repetition times, acoustic call tones, etc.



Replacement article for 765M100!

The PC fulfills the guidelines for the Configuration of Visual Display Units and Office Workspaces (BGI 650) of the Federal Institute for Occupational Safety and Health.



System 21 operating computer

keyboard

radio clock DCF 77ISDN terminal adapter

Accessories

7608900 LED page printer

7608903 UPS module 230V AC (freestanding device)

Monitors

on request

System clino com 21 accounting server



Features

minimum configuration:

- tower casing with additional fans and filters
- mainboard with Pentium PIV 2.4 GHz
- 512 MB RAM
- disk drive (FDD)
- 2* hard drives (HDD) min. 20 GB with change frames
- RAID 0/1 controller for HDD
- DVD-CDR/RW drive (including software)
- streamer
- VGA graphics card (min. 32 MB)
- interfaces 2* RS232, 1* parallel, USB
- 2* LAN Ethernet (10/100 MBit)
- · mouse and keyboard
- DCF-77 radio clock
- 17" (CRT) monitor
- ISDN modem
- Windows XP Professional operating system
- remote management software
- · system backup software
- Ackermann clino com 21 communication system software

Accounting server of the clino com 21 communication system. The patient cards used in the system for telephony and TV services are managed by the accounting server in the corresponding user accounts. The accounting server provides the clearance for using telephony and TV services by the users of the patient cards. Additionally, the automated pay stations and cash terminals are integrated into the System clino com 21 via this unit. Additionally as an interface to third-party systems such as paging systems, EDP, ZLT etc. Consists of computer with keyboard, mouse, HDD, FDD, DVD-CDR/RW, interfaces (serial, LAN, USB), ISDN modem, monitor.

Equipped with application software for the following functions:

- clino com 21 accounting configuration tool
- allocation of configuration
- definition of functions and parameters of telephony and TV functions
- set-up of automated pay stations, cash terminals
- configuration of call numbers used
- management of access to telephone channels and TV programs
- service functions
- database management system for data storage
- system management tools for system analysis
- network functions for system access
- remote servicing software
- freely configurable user classes
- allocation of fees for telephony, Internet, TV
- set-up of user
- relevant data for telephony
- allocation of the necessary Internet data
- configuration of TV data
- access control via user ID (if required)
- data output to connected printer



Replacement article for 765M1K0!

The PC fulfills the guidelines for the Configuration of Visual Display Units and Office Workspaces (BGI 650) of the Federal Institute for Occupational Safety and Health.

Accessories

79822A card reader for one PC workstation

on request

17" CRT Monitor



Features

- 40cm visible screen diagonal
- 85 Hz refresh rate at resolution of 1024*768 pixels
- power management according to EPA
- Plug and Play according to VESA
- · swivel-tilt base

17" monitor for connection to an operating computer or server.

Technical data

Rated voltage 100-240 VAC 50-60 Hz

Power consumption 75 W during operation, 15 W during standby Operating temperature 15 °C to 32 ° (20-80% relative humidity)

Weight 15 kg

Dimensions (WxHxD) 410 x 402 x 420 mm

on request

19" TFT Monitor

19" TFT monitor for connection to an operating computer or server.

Technical data

Rated voltage 100-240 VAC 50-60 Hz

Power consumption max. 50 W during operation, 1 W during standby 15 °C to 32 °C (20-80% relative humidity Operating temperature

Weight

Dimensions (WxHxD) 426 x 436 x 66 mm

Features

- 46 cm visible screen diagonal graphics display up to 1024*768 pixels
- power management according to EPA
- Plug and Play according to VESA
 swivel-tilt base

on request



17" TFT Monitor

17" TFT monitor for connection to an operating computer or server.

Technical data

100-240 VAC 50-60 Hz Rated voltage

Power consumption 40 W during operation, 1 W during standby Operating temperature 15 °C to 32 °C (20-80% relative humidity)

Weight 4 kg

Dimensions (WxHxD) 380 x 333 x 66 mm

Features

- 43 cm visible screen diagona graphics display up to 1280 * 1024 pixels
- · power management according to EPA
- Plug and Play according to VESA
- swivel-tilt base

79822A

Card reader for PC workstation



The card reader for one PC workstation is suitable for editing charge accounts in connection with the patient card.

72582D1

Duty room interface (4 lamps), white System 21



Duty room interface with integrated corridor lamp for connecting the master station to the ward databus. In addition, multiple inputs and outputs are available. It is suitable for surface mount installation when combined with an fm backbox.

Technical data

Class of protection IP 40

Colour white RAL 9016

lamp cover: white, translucent

Dimensions (WxHxD) 158 x 110 x 44.5 mm

Features

Inputs:

- Presence I, Presence II
- Call
- · Doctor call

Short-circuit resilient outputs (for connecting corridor lamp):

- Presence lamp I, presence lamp II
- Call lamp
- Doctor call lamp
- · Signal line for acoustic call transfer

Accessories

72582Z1 Connection board for duty room interface - white

88893AV Dummy cover (package unit 5 pcs)

72582Z1



Connection board for duty room interface - white



Technical data

white RAL 9016 Material PC + ABS - FR Dimensions (WxHxD) 152 x 110 x 20 mm



connection board, connection terminal set

Duty Room Components

Room Terminals

74430B1

|||||||||||||||| Master station system 21



The master station is used as a display and answering unit in the ward or duty room to interconnect zones or wards, and as a digital telephone terminal. It can be operated either via keyboard or touch-sensitive display (touch screen). The master station is connected to the system via the corresponding bus connection unit as well as the duty room interface.

Technical data

Dimensions (LxWxH)

Colour

Upper part: white RAL 9016 Lower part: grey RAL 7035 360 x 215 x 80 mm without handset

Features

Functions:

- Call and status identification in plain text
- · Call release and presence indication
- Call on hold position and call cancellation (only in case of answered calls)
- Free selection of zone interconnection
- Room and bed call answering
- Nurse-to-nurse communication
- · Discreet or hands-free two-way communication nursing staff/patient
- · Simultaneous display of several calls and pre-
- Message broadcasting to definable zones
 Activation of functions (e.g. conversation setup/termination, addressing of rooms or beds, etc.) via touch screen
- · Telephone function with redial facility, loudspeaker / hands-free communication, volume control, microphone muting, enquiry and telephone book function

Equipped with:

- 1 handset with loudspeaker and microphone
- 1 loudspeaker
- 1 microphone
- 1 call push-button red with LED reassurance lamp
- 1 doctor call push-button with LED reassurance lamp
- 2 presence push-buttons green and yellow with LED reminder lamps
- 1 buzzer for call transfer
- 1 telephone keypad with numerical block, redial button, volume control, enquiry button, microphone muting button and loudspeaker button
- 1 Illuminated colour STN-display (5.7 inch) with touch-sensitive surface (touch screen)

Duty Room Components

73070A

Databus connection unit for master station



Databus connection unit with one 8-pin plug contact for connection of master station.

Technical data

Installation in flush-mount box, DIN 49073

Colour white - RAL 9016 Installation depth Dimensions (WxH) 25 mm 71 x 71 mm

Class of protection IP 40 when installed incl. according cover plate

Accessories

88911J3 Cover plate for bus connection unit

88911J3

Cover plate for bus connection unit



Technical data

Colour white RAL 9016 PC + ABS - FR Material

Accessories

76962B1

Room terminal with display, doctor call system 21



Features

Control elements:

- Presence I button
- · Presence II button
- · Call button
- Doctor call button
- · Multifunctional buttons for call answering, call processing, display scroll button, service button

The room terminal serves as the central control of all functions (nurse call, telephone, accounting, radio, TV and light control) in one room with speech function. Here the room terminal represents the interface between the superordinate ward databus and the corresponding room databus. All service elements are color-coded for easy use or provided with symbols. System messages are clearly readable via the LCD graphics display. It is possible to both conduct two-way speech or receive announcements via the built-in speaker and microphone. The room terminal consists of terminal housing with integrated electronics and is easily attached on the corresponding connection board. All configuration data are set-up centrally on the operating computer and stored locally. Bed modules, call and cancel pushbuttons as well as corridor lamps are connected via the databus interfaces as well as additional connection terminals.

Databus interfaces:

- ward databus for digital data and audio transmission
- room databus for controlling up to 4 bed modules or 6 bed electronics
- service socket for the connection of analysis tools and for updating of the firmware

Technical data

Class of protection

Installation sm, fm and cavity wall installation with

> connection board white RAL 9016 PC + ABS - FR 250 x 145 x 37.5 mm

Accessories

Dimensions (LxWxH)

Colour

Material

88860BV Dummy button set to replace the doctor call button 76959A1 Connection board for surface mount installation Connection board for flush mount installation 76959B1 76959D1 Connection board for cavity wall installation

76962C1



Room terminal with display and radio, system 21

as 76962B1, but for the transmission of a radio system program via the integrated speaker. Program selection as well as volume adjustment is carried out via function keys. This model is without doctor call push-button.

88860BV



Dummy button set as replacement for doctor call button





Dummy button to replace the doctor call push-button in the clino phon / com 21 room terminal

Technical data

Colour grey RAL 7035



76959A1

SM connection board for room terminal system 21



Surface-mounted connection board for using room terminal as distributor with clamp terminals for connection to power supply, passive room components and corridor lamp. The connection board contains over-load current protection elements for the outgoing room cables of rooms. The supply terminals are pluggable screw terminals, all remaining connections are designed as clamp terminals. The connection board is equipped with cable guides for OWG residual lengths for easy cabling. Usage of a flush-mounted installation box is necessary for cable entry.

Technical data

Installation surface mounting
Colour white RAL 9016
Material PC + ABS - FR
Dimensions (LxWxH) 250 x 145 x 37.5 mm

Pluggable screw terminals for max. 2 x 2.5 mm² Cu stranded wire with wire end-tip, separate secure supply of components in the room such as bed combination, call module etc. via pluggable miniature terminals, max. wire cross section of 0.5 mm².

76959B1

Fm connection board for room terminal



as 76959A1, but as flush-mounted connection board for room terminal.

Technical data

Installation flush mounting

Dimensions (LxWxH) 250 x 175 x 15 mm (incl. frame)

Pluggable screw terminals for max. 2 x 2.5 mm² Cu stranded wire with wire end-tip, separate secure supply of components in the room such as bed combination, call module etc. via pluggable miniature terminals, max. wire cross section of 0.5 mm².

76959D1

Connection board (cavity wall installation) sytem 21



as 76959A1, but as cavity-wall connection board for room terminal.

Technical data

Installation cavity wall installation
Dimensions (LxWxH) 280 x 175 x 15 mm (incl. frame)

Pluggable screw terminals for max. 2 x 2.5 mm² Cu stranded wire with wire end-tip, separate secure supply of components in the room such as bed combination, call module etc. via pluggable miniature terminals, max. wire cross section of 0.5 mm².

72580D1



Features

Call circuits:

- Doctor call
- · Diagnostic call
- · Bathroom/WC call
- Room call as normal call or emergency call when presence is indicated

Cancelling circuits:

- Presence green to cancel all calls and indicate Presence 1
- Presence yellow to cancel all calls and indicate Presence 2
- · When appropriately configured, separate cancelling for bathroom/WC calls

The room electronic module is the central control unit for rooms without speech function. These are i.e. subordinate function rooms or common rooms, in which call functions are not required. The room electronic module is equipped with inputs for passive call and cancel units and can control an additional external lamp. All configuration data are set-up centrally with the help of the configuration program and stored locally. The surface mounting is carried out in connection with the corresponding connection board, which is mounted using a quick release. Usage of a flush-mounted installation box is necessary for cable entry.

Technical data

Room electronic module (4 lamps)

Class of protection IP 40 Material PC+ABS-FR lamp cover: PC Colour white - RAL 9016

lamp cover: white, transluzent

Fixation am installation in combination with fm backbox,

DIN 49073

Dimensions (WxHxD) 158 x 110 x 90,5 mm

Accessories

72580Z1 Connection board for electronic module system 21, white

88893AV Dummy plate (5-piece)

72580B1



Room electronic module (dummy) system 21



as 72580D1, but without indicator lamp.

Technical data

Class of protection **IP 40**

Installation sm installation in combination with fm backbox, DIN 49073

Colour white RAL 9016 PC + ABS-FR Material Dimensions (WxHxD) 158 x 110 x 90.5 mm

72580Z1



Connection board for electronic room module system 21, white



Connection board for electronic module in rooms without speech facility.

Technical data

white RAL 9016 Material PC + ABS - FR Dimensions (WxHxD) 152 x 110 x 20 mm



connection board, connection terminals

Room Terminals

74180B1

Bed module system 21



The call and control functions required at the patient bed as well as an ISDN interface are made available via the bed module. A patient terminal, a pear push-button or a multiple push-button can also be connected via an auto-release plug. Bedside communication (discreet / hands-free) with the nursing staff is possible when using the patient handset. Telephone calls can be made in connection with the patient terminal. Up to four bed modules can be connected to one room terminal via the room databus. Lights, Venetian blinds, etc can be controlled via a separate control output in connection with the actuator unit.

Features

- 1 call push-button -red- with LED orientation/reassurance lamp
- 1 monitored auto-release jack to connect the patient terminal, a pear push-button or a multiple push-button
- 1 monitored auxiliary socket to connect a pear push-button or a multiple push-button – 7-pin -
- 1 monitored auxiliary electronically isolated plug contact to connect a diagnostic device -
- 1 loudspeaker and microphone for hands-free speech
- 1 ISDN interface
- TV control

Inputs / outputs:

- 2 external call or cancel circuits
- 2 external light buttons
- TV control
- TV sound

Functions:

- · Nurse call release
- · Transmission of nurse call conversations, data, telephone conversations and radio programmes
- Control function for light, Venetian blinds, etc. via a separate control output in connection with the actuator unit
- TV control

Technical data

Class of protection

Installation surface, flush or cavity-wall mounting white RAL 9016 Colour

Material PC + ABS - FR Dimensions (LxWxH) 228 x 80 x 9,5 mm



74179D5

Version with screw terminal connection, call push-button for medical service unit is included

Accessories

74179A1 Connection board for surface mounting BM and BE (screw terminals) 74179B1 Connection board for flush mounting BM and BE (screw terminals) 74179C1 Connection board for cavity wall mounting BM and BE (screw terminals)

MSU connection board for BM and BE (screw terminals)

74181B2





as 74180B1, but for medical service unit.

Accessories

MSU connection board for BM and BE (ribbon cable) 74179D4

74178A1 MSU distributor (ribbon cable) 74182B1



The call and control functions required at the patient bed as well as a data interface are made available via the bed electronic. A patient handset, a pear push-button and a multiple pushbutton can be connected via an auto-release plug. Bedside communication (discreet / hands-free) with the nursing staff is possible when using the patient handset. Up to six bed electronics can be connected to a room terminal via the room databus. Lights, Venetian blinds, etc can be controlled via a separate control output in connection with the actuator

Features

- 1 call push-button -red- with LED orientation/reassurance lamp
- 1 monitored auto-release socket to connect the patient terminal, a pear push-button or a multiple push-button
- 1 monitored auxiliary socket to connect a pear push-button or a multiple push-button
- 1 monitored auxiliary electronically isolated plug contact to connect a diagnostic device -6-nin -
- 1 loudspeaker and microphone for hands-free speech
- · Cancel push-button green -

Inputs / outputs:

- 2 external call or cancel circuits
- 1 external light button
- TV control
- TV sound

Functions:

- · Call release nurse call
- · Transmission of nurse call conversations, data, TV sound and radio programmes
- Control function for light, Venetian blinds, etc. via a separate control output in connection with the actuator unit
- TV control

Technical data

Class of protection IP 40

Version for sm / fm or cavity wall mounting

white - RAL 9016 Colour Material PC + ABS-FR Dimensions (LxWxH) 228 x 80 x 9.5 mm



Version with screw terminal connection, MSU call push-button is included

Accessories

Connection board for surface mounting BM and BE (screw terminals) 74179A1 Connection board for flush mounting BM and BE (screw terminals) 74179B1 74179C1 Connection board for cavity wall mounting BM and BE (screw terminals)

74179D5 MSU connection board for BM and BE (screw terminals)

74183B1



MSU bed electronics system 21



as 74182B1, but for medical service unit.

Accessories

MSU connection board for BM and BE (ribbon cable)

74179A1



Sm connection board for BM21 and BE21 (screw terminals)



Sm bed module connection board for connecting bed modules and electronics. With plugin terminals for passive room components, 24 V DC power supply, and cable conduits for reduced FO cables.

Technical data

Colour white RAL 9016 PC + ABS - FR Material



connection board, connection terminals

74179B1

FM connection board for BM21 and BE21 (screw terminals)



as 74179A1, but as flush-mounted connection board for bed module or bed electronics

74179C1

Connection board for BM21 and BE21 (cavity-wall installation)



as 74179A1, but as cavity-wall mounted connection board for bed module or bed electronics.

74179D5



MSU connection board for BM21 and BE21 (screw terminals)



as 74179A1, but as connection board for medical service units for bed module or bed electronics.

Technical data

Version

screw connection terminal



connection board, connection terminals

74179D4



MSU connection board for BM21 and BE21 (ribbon cable)



as 74179A1, but as connection board for medical service units for bed module or bed electronics. The bed modules or bed electronics are wired via flat ribbon cable and POF-OWG in connection with the MSU connector panel.

Technical data

Version

with ribbon cabling



connection board, connection terminals

74179E4



Connection board channel-80 for BM21 & BE21 (screw terminals)



as 74179A1, but as a connection board for channel installation (80 mm) for bed module or bed electronics.



connection board, connection terminals

Distributor for medical service unit (ribbon cable)



MSU distributor for the clino com 21 components, which are integrated into medical service units, e.g. bed modules or bed electronics.

Features

- FO input and output cable (POF) for the corridor bus with connection to the room terminal
- FO input and output cable (POF) for wiring modules within the medical service unit

74136A1



Patient terminal with touch display and card reader



Features

- Call button red with orientation/reassurance lamp
- 2 light buttons yellow
- 5 navigation buttons for menu control
- · Graphic LCD display
- · Contactless card reader
- Microphone for discreet or hands-free speech
- Earpiece
- 3.5 mm jack bush for connecting headphones
- · Auto-release system plug for connection to a bed module or the bed electronics

The patient terminal with touch display and card reader is used as a control unit, with which - among other things - patients can release calls, select radio and TV channels, switch the light on and off and make telephone calls (optional). As well as the raised buttons for call functions, light control and menu guidance, a back-lit LCD display with touch-sensitive surface (touch-screen) is used as a central control element. The patient terminal has easy-toclean surfaces and is protected against immersion in water. In order to receive radio and TV sound, the patient handset is provided with loudspeakers and a headphone connection - 3.5 mm jack bush. A card reader is integrated at the back and receives the patient card. This guarantees unambiguous allocation of the phone number and the charge account. The card reader operates contactless. Reloadable software permits subsequent changes to the functions of the equipment. The patient terminal is placed in a bracket which can be mounted on the wall or on the bedside table. The patient terminal is connected to the bed module by means of an auto-release plug. Headphones can be connected via the 3.5 mm jack bush.

Technical data

Protection of signal line

Fixation bracket (carrier) on the bedside table or on the wall

Colour white RAL 9016 PC + ABS - GF20 Material Dimensions (LxWxH) 206 x 71 x 27(37) mm



2x Cable fixing clip for mobile call units (attached to trapeze bar)

Accessories

74131B1 Bracket to deposit the patient handset / terminal

79821A Patient card

89760C Earphones with right-angle plug

74096D Cable fixing clip for mobile call units (attached to trapeze bar)

74135A1





Features

- · Call button red with LED orientation/reassurance lamp
- 2 light buttons yellow -
- 5 navigation buttons for menu control
- · Microphone for discreet or hands-free communication
- Earpiece
- 3.5mm jack bush for connecting headphones
- · Auto-release plug for connection to a bedhead module or the bedside electronics

The patient handset serves as a user-friendly control unit for the patient to release calls, select radio and TV channels, switch the light on/off and to communicate with the nursing staff via the discreet communication facility. The unit can be operated by using the clearly arranged set of buttons, whereby the call button is fitted with an orientation light and a reassurance lamp. The selected radio and TV channels, as well as the time, are shown on a 2x2digit 7-segment display. In order to receive radio and TV sound, the patient handset is fitted to a headphone connection - 3.5 mm jack bush. The patient handset has an easy-to-clean surface and is splash-proof (IP 54). Reloadable software enables subsequent changes to the functional range. The patient handset is placed in a bracket, which can be mounted on the wall or on the bedside table. It is connected to the bed module by means of an auto-release plug.

Technical data

Class of protection

Installation bracket (carrier) on bedside table or wall

Colour white RAL 9016 PC + ABS - GF20 Material Dimensions (LxWxH) 206 x 71 x 27(37) mm



2x Cable fixing clip for mobile call units (attached to trapeze bar)

Accessories

Bracket to deposit the patient handset / terminal 74131B1

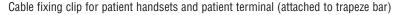
89760C Earphones with right-angle plug

74096D Cable fixing clip for mobile call units (attached to trapeze bar)

74096D

Cable fixing clip for mobile call units (attached to trapeze bar)







74131B1

Bracket to deposit the patient handset / terminal



Bracket to deposit the patient handset / terminal on the bedside table or as a parking station on the wall.

Technical data

Colour white RAL 9016

79821A





Contactless card to control account access and the respective authorisation. The patient card is inserted at the back of the patient terminal and it can be issued by the automatic pay desk or personally by the Admissions Department.

Technical data

Card type mifare

Additional Components

Display Units

72553C1

Corridor lamp with 3 lamp cells system 21



Corridor lamp with 3 lamp cells indicating the respective room on the corridor, which has actuated the call. The corridor lamp is connected to the room terminal or it serves as a parallel indicator for the electronic module or duty room interface.

Technical data

Class of protection

Installation sm installation in combination with fm backbox,

DIN 49073

Colour plastic base, white RAL 9016 lamp cover: white, translucent

Material PC + ABS-FR Dimensions (WxHxD) 158 x 110 x 90.5 mm



corridor lamp, connection board, lamp

72553D1

Corridor lamp with 4 lamp cells system 21



Corridor lamp with 4 lamp cells indicating the respective room on the corridor, which has actuated the call. The corridor lamp is connected to the room terminal or it serves as a parallel indicator for the electronic module or duty room interface.

Technical data

Class of protection

Installation sm installation in combination with fm backbox,

DIN 49073

plastic base, white RAL 9016 Colour lamp cover: white, translucent

PC + ABS-FR Material Dimensions (WxHxD) 158 x 110 x 90.5 mm



corridor lamp, connection board, lamp

74654A1

Information display (single-sided) for wall-mounting



Wall-mounted information display with red LED dot matrix for the self-luminous, alphanumeric plain text display. Loudspeaker for announcements as well as a tone generator for acoustic call forwarding are integrated.

System report indication with room and bed identification (up to 12 characters, alphanumeric) as well as symbols for call type (i.e. WC, doctor, fault). Priority-controlled display with automatic scrolling function (including arrow display) with several pending messages of one priority. Optimal time display in digital format (i.e. 13:40). Function monitoring via superordinate control unit (i.e. DMP).

Features

- · Call indication with configured room and bed designation
- · Display of call type
- . Display of time (if no call is queuing)
- Acoustic call forwarding and message broadcasting via loudspeakers (configurable)

Display order:

- · If one or more high priority calls are queuing (doctor call, diagnostic call, emergency call, bathroom/WC emergency call, enhanced call), these calls are scrolled alternately at approx. five-second intervals.
- If no high priority calls are on the system and if several bathroom/WC or normal calls (nurse calls) are queuing, these calls are scrolled alternately at approx. five-second intervals.

Technical data

IP 40 Class of protection

12-character LED dot matrix Display Version single-sided for wall-mounting

Material oven enamelled sheet steel with plastic cover;

PC + ABS - FR white - RAL 9016 Colour Dimensions (LxWxH) 751 x 85 x 175 mm

ACKERMANN rinn

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Additional Components

74655A1

Information display (double-sided) for ceiling mounting



as article 74654A1, but double-sided and ready for ceiling mounting. Possibility of system report indication from different nurse call zones (front / back).

Technical data

Version double-sided for ceiling-mounting
Dimensions (LxWxH) 751 x 85 x 175 mm (+ 42 mm center bar)

Accessories

89603C1 Ceiling mounting set

89603C1

Ceiling mounting set



Ceiling mounting set for mounting the appropriate information display, single- or double-sided, to ceilings.

Technical data

Material thermoplastic
Colour white RAL 9016
Dimensions length variable u

length variable up to max. 600 mm



2x swivel tube, suspension kit

72552C1

||||||||||||||||| Direction lamp system 21



Direction lamp with direction arrow left and right, for visually indication of the call with the highest priority within the allocated section of a zone. Calls are displayed with different direction lamp signals:

- continuous light for calls
- slowly flashing light for emergency calls
- fast flashing light for alarm calls

Technical data

Class of protection IP 40

Installation sm installation in combination with fm backbox,

DIN 49073

Colour plastic base white RAL 9016

white lamp cover

Material P

Dimensions (HxWxD) 158 x 110 x 90.5 mm



The control electronics are fixed to the connection board



direction lamp including lamp and labelling set

Accessories

72552Z1 Connection board for direction lamp, white System 21 72515Z1 Labelling set for zone indicator lamp, 35 mm (accessories)

72552Z1

Connection board for direction lamp, white system 21



Technical data

 Colour
 white RAL 9016

 Material
 PC + ABS - FR

 Dimensions (WxHxD)
 152 x 110 x 20 mm

72516Q1

Electronic control system for zone indicator lamp



Electronic control system to control each lamp within a zone indicator lamp. It indicates the highest priority call within the allocated zone and is integrated into the ward databus.

Technical data

Installation sm installation in combination with fm backbox,

DIN 49073 Colour white - RAL 9016 PC + ABS-FR 158 x 110 x 44.5 mm Material Dimensions (WxHxD)



control electronics, connection board, connection terminals

General	clino	Systems
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Central Components	80 - 83
Room Components	84 - 98
Additional Components	99 - 112

Power Supply Units and UPS Modules

89954M1

Single-phase power supply 24 V DC (5A)



Single-phase power supply (5A) for constant DC supply in nurse call systems. Compact design thanks to modern primary-clocked circuit technology (in accordance with EN6100-3-2), suitable for top-hat rail mounting in the sub-distribution or also outside the sub-distribution for wall mounting with the 89954MA mounting kit (safety cover). The supply unit output is idling, overload and short-circuit proof.

Technical data

Input voltage 100 - 120 / 220 - 240 V AC reversible

47 - 63 Hz

Output voltage 24 - 28 V DC can be set

Output current 24 V / 5A IP 20

Class of protection

Protection low voltage SELV (as per EN 60950, VDE0100 PART 410)

PELV (as per VDE0160)

0 °C - 50 °C for free convection cooling Operating temperature

(20-80% relative air humidity) -25 °C to +85 °C

Storage temperature Weight 752 g

Version for top hat rail mounting in sub-distribution

Dimensions (WxHxD) 64 x 124 x 102 mm

Accessories

Safety cover and mounting kit for power supply unit (5A) 89954MA 89954C6 UPS module 24V DC (5A) for 5A power supply unit

89954R2

Singel-phase power supply 24 V DC (10A)



Single-phase power supply (10A) for constant DC supply in nurse call systems. Compact design thanks to modern primary-clocked circuit technology (in accordance with EN6100-3-2), suitable for top-hat rail mounting in the sub-distribution or also outside the sub-distribution for wall mounting with the 89954MB mounting kit (safety cover). The supply unit output is idling, overload and short-circuit proof.

Technical data

Input voltage 100 - 120 V AC / 220 - 240 V AC reversible

47 - 63 Hz

Output voltage 24 to 28 V DC can be set Output current 24 V / 10 A, 28 V / 8.6 A

IP 20 Class of protection

SELV (as per EN 60950, VDE0100 PART 410) Protection low voltage

PELV (as per VDE0160)

Operating temperature 0 °C - 60 °C for free convection cooling (20-80% relative air humidity)

-25 °C to +85 °C

Storage temperature 1195 g Weight

for top hat rail mounting in sub-distribution Version

Dimensions (WxHxD) 120 x 124 x 102 mm

Accessories

Safety cover and mounting kit for power supply unit (10A) 89954MB 89954C7 UPS module 24V DC (10A) for 10A power supply unit

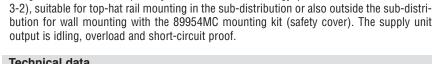












Technical data

Singel-phase power supply 24VDC (20A)

Input voltage

100 - 120 V AC / 220 - 240 V AC reversible 47 - 63 Hz 24 to 28V DC can be set

Output voltage Output current Type of protection

24 V / 20 A, 28 V / 18 A IP 20

Protection low voltage

SELV (as per EN 60950, VDE0100 PART 410) PELV (as per VDE0160)

0 °C - 60 °C for free convection cooling (20-80% relative air humidity)

Operating temperature Storage temperature

-25 °C to +85 °C

Weight Version Dimensions (WxHxD)

1800 g for top hat rail mounting in sub-distribution

220 x 124 x 102 mm

Single-phase power supply (20A) for constant DC supply in nurse call systems. Compact design thanks to modern primary-clocked circuit technology (in accordance with EN6100-

Accessories

Safety cover and mounting kit for power supply unit (20A)

89954MC

89954C8

UPS module 24V DC (20A) for 20A power supply unit

89954MA

89954R3



Safety cover and mounting kit for power supply unit (5A)



Safety cover and mounting kit (for 5A power supply) for wall mounting power supplies outside a sub-distribution.

Technical data

Colour

grey - RAL 7035 -



top hat rail is included

89954MB



Safety cover and mounting kit for power supply unit (10A)



Safety cover and mounting kit (for 10A power supply) for wall mounting power supplies outside a sub-distribution.

Technical data

Colour

grey - RAL 7035 -



top hat rail is included

89954MC



Safety cover and mounting kit for power supply unit (20A)



Safety cover and mounting kit (for 20A power supply) for wall mounting power supplies outside a sub-distribution.

Technical data

Colour

grey - RAL 7035 -



top hat rail is included

89954C6

UPS module 24V DC (5A) for 5A power supply unit



Uninterruptible power supply 24V DC / 5 A (online DC-UPS) as supplement to 24V DC power supply. Designed for establishing a secure, fully uninterruptible 24V DC power supply and assumes the uninterruptible power supply of the connected call system along with the UPS device's 24V DC power supply during power failure by engaging a battery module. Power failures as well as disturbances are reported according to DIN VDE 0834 Parts 1 + 2: 2000-4. When supply voltage is present, the power supply unit supplies the devices and simultaneously charges the UPS device's batteries.

Technical data

Nominal input voltage 24 V DC 22.5 ... 30 V DC Input voltage

when battery-drive: typ.26.5 .. 19.5 V DC Output voltage

Charging time for discharged batteries up to 90% approx. 14 hrs

Switching threshold for pre-warning of

battery switch-off

typ. 19.5 V Switching threshold for total discharge protection typ. 19.5 V Type of protection IP 20

Cooling free air convection 0 ... + 50 °C Ambient temperature Weight UPS module: 2.5 kg battery: 5.6 kg

Installation UPS module: terminal for top-hat rail assembly Fixation battery mounting: wall mounting (165 x 131 mm)

Battery capacity

(for 80% load @ 20 °C) approx. 60 minutes Battery operating time Charging current typ. 0.2 ... 0.5A switchable in 5 increments Dimensions (WxHxD) UPS module: 70 x 126 x 128.5 mm Battery: 180 x 159 x 110 mm

The battery is wall mounted within the sub-distribution.

89954C7

UPS module 24V DC (10A) for 10A power supply unit



as 89954C6, but 10A.

Technical data

Weight battery: 12.7 kg

Installation battery mounting: wall mounting (386 x 140 mm)

Battery capacity

Battery operating time (for 70% load @ 20 °C) approx. 60 minutes typ. 0.5 .. 1A switchable in 5 increments Charging current Dimensions (WxHxD) UPS module 70 x 141 x 151 mm battery: 405 x 178 x 135 mm

89954C8

UPS module 24V DC (20A) for 20A power supply unit



as 89954C6, but 20A.

Technical data

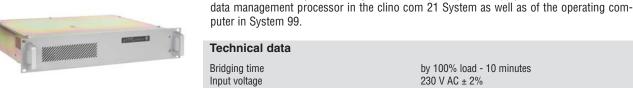
Weight battery: 20.3 kg

Installation battery mounting: wall mounting (386 x 140 mm)

Battery capacity

Battery operating time (for 60% load @ 20°C) approx. 60 minutes typ. 0.7 ... 2A switchable in 5 increments Charging current Dimensions (WxHxD) UPS module 86 x 220 x 160 mm battery: 405 x 178 x 135 mm





Input voltage Input current Output current

UPS module 230V AC (19" installation)

3.0 A Output voltage 230 V AC ± 2%; 50/60 Hz ± 0.1%

Ambient temperature 0 °C - 40 °C

Relative humidity 0 - 95% non-condensing Version for mounting in 19" cabinet

Weight 16.4 kg 2 U, D = 390 mm Dimensions

7608903

76089AC

|| || || || || || UPS module 230V AC (freestanding device)



UPS module 230 V for uninterruptible power supply of the server and of the data management processor in the clino com 21 System as well as of the operating computer in System

UPS module 230 V (built-in, 19") for uninterruptible power supply of the server and of the

3.5 A

Technical data

Bridging time by 100 % load - 10 minutes Input voltage 230 V AC ± 2%

Input current 3.5 A

Output voltage 230 V AC ± 2%; 50/60 Hz ± 0.1% Output current 3.0 A

Temperature range 0 °C - 40 °C Relative humidity 0 - 95% non-condensing

12.5 kg Weight

Dimensions (WxHxD) 140 x 190 x 440 mm

Room Terminals

73075B

Call push-button with 2 monitored sockets



Features

- 1 call push-button
- 1 LED orientation / reassurance lamp -red-
- 1 monitored socket, 7-pin
- 1 monitored socket, 6-pin

Call unit for call initiation to connect to an electronic module or room terminal via a passive input. Mobile call units such as pear and multiple push-buttons are connected to the plug sockets (7-pin). Additional plug socket (6-pin) for connection of a medical unit (i.e. Infusiomat) with alarm contact. Room identification displayed at call initiation. Monitoring of connected call units (call circuit monitoring).

Technical data

Class of protection IP 40, when installed incl. according cover plate

Installation in flush mount box DIN 49073

Installation depth 25 mm Dimensions (WxH) 71 x 71mm



call push-button, connecting terminals w/o screws

Accessories

88881J3 Cover plate with push-button (red) for units with 2 sockets

88881J3

Cover plate with push-button (red) for units with 2 sockets



Cover plate for call module as well as call unit with call push-button and 2 plug sockets.

Technical data

Colour white RAL 9016 Material PC + ABS - FR

Accessories

88914A3 Mounting frame for cover plate (single) 88914B3 Mounting frame for cover plate (double) 88914C3 Mounting frame for cover plate (triple)

73075A



Call push-button with 1 monitored socket



Features

- 1 call push-button
- 1 LED orientation / reassurance lamp -red-
- 1 monitored socket, 7-pin

as 73075B, but with plug socket 7-pin.

Technical data

Class of protection IP 40, when installed incl. according cover plate

Installation in flush mount box DIN 49073

Dimensions (WxH) 71 x 71mm



call push-button, connection terminals w/o screws

Accessories

88881L3 Cover plate with push-button (red) with 1 socket

88881L3

Cover plate with push-button (red) with 1 socket



Cover plate for call module as well as call unit with call push-button and plug socket.

Technical data

white RAL 9016 Colour Material PC + ABS - FR

Accessories

8891	4A3	Mounting	frame	for	cover	plate	(single)
8891	4B3	Mounting	frame	for	cover	plate	(double)
8891	4C3	Mounting	frame	for	cover	plate	(triple)

73075D



Call unit with 2 diagnostic sockets



as 73075B, but with 2 plug sockets 6-pin as well as without call push-button. Connection of 2 medical units (i.e. Infusiomat) with alarm contact possible.

Technical data

Class of protection IP 40, when installed incl. according cover plate Installation in flush mount box DIN 49073 Installation depth

25 mm Dimensions (WxH) 71 x 71 mm

Accessories

88912D3

Cover plate for call unit with 2 dignostic sockets

Features

• 2 monitored sockets, 6-pin

88912D3



Cover plate for call unit with 2 dignostic sockets



Cover plate for call unit with 2 dignostic sockets

Technical data

Colour white RAL 9016 Material PC + ABS - FR

Accessories

88914A3 Mounting frame for cover plate (single) 88914B3 Mounting frame for cover plate (double) 88914C3 Mounting frame for cover plate (triple)

73022A2





• 1 call push-button

Features

• 1 LED orientation / reassurance lamp red

Call push-button for call initiation to connect to an electronic module or room terminal via a passive input.

Superordinate room identification displayed at call initiation. Function monitoring is carried out by the electronic module or room terminal (call circuit monitoring).

Technical data

Class of protection IP 40, when installed incl. according cover plate

Installation in flush mount box, DIN 49073 Installation depth

25 mm Dimensions (WxH) 71 x 71 mm

Accessories

Cover plate with push-button - red -88881G3

88881D3 Cover plate with push-button -blue- (doctor call button)

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88881G3

Cover plate with push-button - red -



Cover plate with one call push-button -red-

Technical data

Colour white RAL 9016 Material PC + ABS - FR

Accessories

88160A IPx4 sealing kit (5 pcs)

88914A3 Mounting frame for cover plate (single) 88914B3 Mounting frame for cover plate (double) 88914C3 Mounting frame for cover plate (triple)

88881D3

Cover plate with push-button -blue- (doctor call button)



Cover plate with one doctor call button -blue-.

Technical data

Colour white RAL 9016 Material PC + ABS - FR

Accessories

IPx4 sealing kit (5 pcs) 88160A

88914A3 Mounting frame for cover plate (single) 88914B3 Mounting frame for cover plate (double) 88914C3 Mounting frame for cover plate (triple)

70006C



Pneumatic call push-button



Call push-button for pneumatic actuation in connecting to an electronic module or room terminal via a passive input.

Superordinate room identification displayed at call initiation. Function monitoring is carried out by the electronic module or room terminal (call circuit monitoring).

Features

- 4m insulating plastic tube and rubber ball
- 1 reassurance lamp red-

Technical data

Class of protection IP 40, when installed incl. according cover plate

for normally closed circuit system Version in flush mount box, DIN 49073 Fixation

Installation depth 40 mm

Version for normally closed circuit system

Weight 193 g Dimensions (BxH) 71 x 71 mm

Accessories

88880C3 Cover plate for pneumatic call push-button

88880C3



Cover plate for pneumatic call push-button



Technical data

Colour white - RAL 9016 Material PC + ABS - FR

Accessories

IPx4 sealing kit (5 pcs) 88160A

70045A3

Call switch with pull cord and knob



Features

- 2m PVC cord with red knob
- 1 LED reassurance lamp red -

Pull cord for connection to an electronic module or room terminal via a passive input. Superordinate room identification displayed at call initiation. Function monitoring is carried out by the electronic module or room terminal (call circuit monitoring).

Technical data

Class of protection IP 40, when installed incl. according cover plate Material moulding material: ABS

in flush mount box, DIN 49073 Installation Version for normally closed circuit system

Installation depth 25 mm Dimensions (WxH) 71 x 71 mm

Accessories

Cover plate for call switch with pull cord 88880A3

88880A3



Cover plate for call switch with pull cord



Technical data

Colour white - RAL 9016 Material PC + ABS - FR

Accessories

IPx4 sealing kit (5 pcs) 88160A

88914A3 Mounting frame for cover plate (single) 88914B3 Mounting frame for cover plate (double) 88914C3 Mounting frame for cover plate (triple)

73642B2



Call / cancel push-button or duty room unit



Call / cancel push-button (duty room unit) with flush mount supporting ring and expanding/ retaining clamps for flush mount backboxes.

Technical data

Class of protection IP 40, when installed incl. according cover plate Installation in flush mount box, DIN 49073

Installation depth 25 mm Dimensions (BxH) 71 x 71 mm

Accessories

Cover plate for call/cancel push button with push-buttons - red and green -88882A3

Features

- 1 button for cancel and presence function
- 1 cancel and presence push-button • 1 LED reminder lamp - green -
- 1 LED orientation / reassurance lamp -red-
- 1 sound generator for call forwarding

88882A3

Cover plate for call/cancel push button with push-buttons - red and green -

Technical data Colour white RAL 9016

PC + ABS - FR



Accessories

Material

IPx4 sealing kit (5 pcs) 88160A

73642C

Cancel push-button - PR 1 -



Cancel push-button with flush mount supporting ring and expanding/retaining clamps for flush mount backboxes.

Technical data

Class of protection IP 40, when installed incl. according cover plate Installation in flush mount box, DIN 49073

Installation depth 25 mm Dimensions (WxH) 71 x 71 mm

Accessories

88881H3 Cover plate with button - green -

Features

- 1 LED reminder lamp green -
- 1 cancel and presence push-button
- 1 sound generator for call forwarding

88881H3



Cover plate with button -green-



Technical data

Colour white RAL 9016 Material PC + ABS - FR

Accessories

IPx4 sealing kit (5 pcs) 88160A

88914A3 Mounting frame for cover plate (single) 88914B3 Mounting frame for cover plate (double) 88914C3 Mounting frame for cover plate (triple)

73642D



Cancel push-button - PR 2 -



Cancel push-button with flush mount supporting ring and expanding/retaining clamps for flush mount backboxes.

Technical data

IP 40, when installed incl. according cover plate Class of protection

Installation in flush mount box, DIN 49073

Installation depth 25 mm Dimensions (WxH) 71 x 71 mm

Accessories

88881M3 Cover plate with button - yellow -

Features

- 1 LED reminder lamp yellow
- 1 cancel and presence push-button
- 1 sound generator for call forwarding

88881M3



Cover plate with button - yellow -



Technical data

white RAL 9016 Colour Material PC + ABS - FR

Accessories

88160A IPx4 sealing kit (5 pcs)

73642E

Cancel push-button - PR 1 / PR 2 -



Cancel push-button with flush mount supporting ring and expanding/retaining clamps for flush mount backboxes.

Technical data

Class of protection IP 40, when installed incl. according cover plate Installation in flush mount box, DIN 49073 Installation depth 25 mm Dimensions (WxH)

71 x 71 mm

Accessories

Cover plate with buttons - green / yellow -88882B3

Features

- 2 cancel and presence push-buttons
- 2 LED reminder lamps green and yellow -
- 1 sound generator for call forwarding

88882B3

Cover plate with buttons - green / yellow -



Technical data

Colour white RAL 9016 Material Pc + ABS - FR

Accessories

88160A IPx4 sealing kit (5 pcs)

88914A3 Mounting frame for cover plate (single) 88914B3 Mounting frame for cover plate (double) 88914C3 Mounting frame for cover plate (triple)

88160A



Sealing kit for standard installations

The sealing kit guarantees IPx4 humidity protection for call and cancel push-buttons as well as for pull cords. The kit can also be used in places that need to be protected against splash water and it can be retrofitted in already existing installations. One package includes 5 sealing kits for a maximum of 5 call and cancel buttons or 5 pull cords.



5 pieces

74189A

Auto-release plug system - A-coded



Auto-release plug system - A-coded - for connecting pear or multiple push-buttons with auto-release plug. It is suitable for fm combination boxes and fm backboxes with 60mm screw fixing groove.

Technical data

Class of protection IP 40, when installed incl. according cover plate Installation in flush mount box, DIN 49073 Installation depth 25 mm

Dimensions (WxH) 71 x 71 mm

Accessories

88910N3 Cover plate for auto-release jack - A-coded

61

88910N3

Cover plate for auto-release jack - A-coded



Technical data

Colour white - RAL 9016 PC + ABS - FR Material

Accessories

88914A3 Mounting frame for cover plate (single) 88914B3 Mounting frame for cover plate (double) 88914C3 Mounting frame for cover plate (triple)

74199A



Auto-release plug system



Auto-release plug system for connecting pear push-buttons or multiple push-buttons with auto-release plug. It is suitable for fm combination boxes and fm backboxes with 60mm screw fixing groove.

Technical data

IP 40, when installed incl. according cover plate Class of protection Installation in flush mount box, DIN 49073 Installation depth 25 mm

Dimensions (WxH) 71 x 71 mm

Accessories

88880D3 Cover plate for auto-release plug system

88880D3



Cover plate for auto-release plug system



Technical data

Colour white - RAL 9016 Material PC + ABS - FR

Accessories

88914A3 Mounting frame for cover plate (single) 88914B3 Mounting frame for cover plate (double) 88914C3 Mounting frame for cover plate (triple)

71185D2



Sensor push-button as cancel push-button



The sensor push-button works as a cancel push-button with LED orientation / reassurance lamp - green - and with a 4mm polished chrome-platted brass cover, ø 70mm and 3 hexagon socket set screws as front plate fixing.

Accessories

Backbox for sensor push-button 89450B

Sensor push-button as call push-button



The sensor push-button works as a call push-button with LED orientation / reassurance lamp - red - and with a 4mm polished chrome-platted brass cover, ø 70mm and 3 hexagon socket set screws as front plate fixing.

Accessories

89450B Backbox for sensor push-button

89450B

71185E2



||||||||||||||||| Backbox for sensor push-button



For flush mounting touch sensitive call push-buttons, with back and side entry.

Technical data

Material

steel, galvanized and chromatized steel

Features

- 1 metal spacer for plaster tolerance
- 1 dust cover
- 1 gasket
- 1 anchor plate

Mobile Room Terminals

74141B1





Pear push-button with 7-pin plug, connection cable and slot for line insertion to enable variable looping and pull relief.

Technical data

Material

Colour white - RAL 9016

for normally closed circuit systems Version Dimensions (WxLxD) 40 x 110 x 18 mm

Features

- 1 call push-button red with nursing staff symbol, suitable for call circuit monitoring
- 1 LED orientation / reassurance lamp red -

74141C1



Pear push-button (NCC) 7-pin plug, 5 m

as 74141B1, but with 5m connection cable.

General clino Systems

Room Components

74141B3

Pear push-button (NCC) auto-release plug, 3 m



Pear push-button with auto-release plug, connection cable and slot for line insertion to enable variable looping and pull relief.

Technical data

ABS Material

Colour white - RAL 9016

Version for normally closed circuit systems Dimensions (WxLxD) 40 x 110 x 18 mm

Features

- 1 call push-button red with nursing staff symbol, suitable for call circuit monitoring
- 1 LED orientation / reassurance lamp red -

74141C3



Pear push-button (NCC) auto-release plug, 5 m

as 74141A3, but with 5 m connection cable.

74141B4



Pear push-button (NCC) auto-release plug-A-, 3 m



Pear push-button with with A-coded auto-release plug, connection cable and slot for line insertion to enable variable looping and pull relief.

Technical data

Colour white - RAL 9016

Material

for normally closed circuit systems Version

Dimensions (WxLxD) 40 x 110 x 18 mm

Features

- 1 call push-button red with nursing staff symbol, configured for call circuit monitoring
- 1 LED orientation / reassurance lamp red -

Unsuitable for System cc21.

74141C4



Pear push-button (NCC) auto-release plug - A - , 5 m

as 74141B4, but with 5 m connection cable.



Unsuitable for System cc21.

74141B7



Pear push button, 3 m, auto-release "L" (NCC)



Pear push-button with L-coded auto-release plug and connection cable for connection to a bed module or call module, with push-button contact monitoring. Connection cable and slot for line insertion for variable loop forming and pull relief.

Technical data

Material

white - RAL 9016 Colour

Version for normally closed circuit systems

Dimensions (WxLxD) 40 x 110 x 18 mm

Features

• 1 call push-button - red - with nursing staff symbol and LED reassurance / orientation lamp

Pear push-button (NCC) auto-release plug -L-, 5 m

as 74141B7, but with 5m connection cable.

74151B1

74141C7



Multiple push-button (NCC) 7-pin plug, 1 light button, 3 m



Multiple push-button with 7-pin plug, connection cable and slot for cable insertion to enable variable looping and pull relief.

Technical data

Material ABS

Colour white - RAL 9016

Version for normally closed circuit systems

Dimensions (WxLxD) 40 x 110 x 18 mm

Features

- 1 call push-button red with nursing staff symbol, suitable for call circuit monitoring
- 1 LED orientation / reassurance lamp red -
- 1 light push-button yellow -

74153B1

||||||||||||||||||| Multiple push-button (NCC) 7-pin plug, 2 light button, 3 m



Multiple push-button with 7-pin plug, connection cable and slot for cable insertion to enable variable looping and pull relief.

Technical data

Material

Colour white - RAL 9016 Dimensions (WxLxD) 40 x 110 x 18 mm

for normally closed circuit systems

Features

- 1 call push-button red with nursing staff symbol, suitable for call circuit monitoring
- 1 LED orientation / reassurance lamp red -
- 2 light push-buttons yellow (separate circuits)

74153C1

|||||||||||||||| Multiple push-button (NCC) 7-pin plug, 2 light buttons, 5 m

as 74153B1, but with 5 m connection cable.

General clino Systems

Room Components

74153B3



Multiple push-button with auto-release plug, connection cable and slot for cable insertion to enable variable looping and pull relief.

Technical data

Material ABS

Colour white - RAL 9016

for normally closed circuit systems Version Dimensions (WxLxD) 40 x 110 x 18 mm

Features

- 1 call push-button red with nursing staff symbol, suitable for call circuit monitoring
- 1 LED orientation / reassurance lamp red -
- 2 light push-buttons yellow (separate circuits)

as 74153B3, but with 5 m connection cable.

74153B4

74153C3



Multiple push-button with A-coded auto-release plug, connection cable and slot for cable insertion to enable variable looping and pull relief.

Technical data

Material

white - RAL 9016 Colour Version for closed circuit systems Dimensions (WxLxD) 40 x 110 x 18 mm

Unsuitable for System cc21.

Features

- 1 call push-button red with nursing staff symbol, configured for call circuit monitoring
- 1 LED orientation / reassurance lamp red -
- 2 light push-buttons yellow (seperate cir-

74153C4

Multiple push-button (NCC) auto-release plug -A-, 2 light button, 5 m

as 74153B4, but with 5 m connection cable.

Unsuitbale for System cc21.

74153B7



Multiple push-button with L-coded auto-release plug and connection cable for connection to a bed module or call module, with call button contact monitoring. Connection cable and slot for line insertion to enable variable loop forming and pull relief.

Technical data

Material ABS

white - RAL 9016 Colour Dimensions (WxLxD) 40 x 110 x 18 mm

Features

- 1 call push-button red with nursing staff symbol and LED reassurance / orientation lamp
- 2 light push-button yellow (separate circuit)

74153C7



Multiple push-button (NCC), auto-release plug -L-, 2 light button, 5 m

as 74153B7, but with 5 m connection cable.

Special Call Units

73300A





Noise level sensor with adjustable noise threshold / call actuation time, microphone, call push-button (red) and push-button to block calls for noise threshold testing, 2 LED control lights, 2m connection cable with 7-pin diode plug.

Technical data

Colour black - RAL 9011 Dimensions (WxHxD) 155 x 95 x 38 mm

Features

- 1 microphone
- 1 call push-button
- 1 push-button to block calls for noise threshold testing
- 2 LED control lights
- 2m connection cable with 7-pin plug

70007A



Pneumatic pear push-button (NCC) 7-pin plug, 1.9 m



Pneumatic pear push-button with 7-pin connection plug, 1.9m insulating plastic tube with rubber ball and retaining clip.

Technical data

Colour white Input voltage

for normally closed circuit systems Version

Features

• 1.9m insulating plastic tube with rubber ball and retaining clip

70007B

Pneumatic breath call unit (NCC) 7-pin plug



Pneumatic breath call unit with 7-pin connection plug. It is suitable for patients who cannot move. The call actuated pneumatic via strong breath into the unit. The unit is connected to the nurse call system via a 7-pin auxiliary plug contact.

Technical data

Version for normally closed circuit systems Input voltage 24 V - AC/DC

Accessories

Spare tube for 70007B pneumatic call unit 70005B7

70005BZ



Spare tubes for pneumatic call unit 70007B



Accessories for pneumatic call units 70005B / 70007B

12 spare tubes with filter

73310A1

Radio call set with handheld transmitter



Radio call set with handheld transmitter for mobile call release in resident's rooms. After call actuation, the call is transmitted to the radio receiver, which is connected to the nurse call system via a 7-pin plug.

Technical data

(handheld transmitter) 12 V battery (included) Power supply (radio receiver) 12 - 35 V DC or 12 - 30 V AC (handheld transmitter) 31 x 53 x 17 mm Dimensions (WxHxD) (radio receiver) 63 x 110 x 25 mm



handheld transmitter, radio receiver, battery

Features

- 1 single channel handheld transmitter with confirmation control (red LED)
- 1 radio receiver with 7-pin plug for call unit and 0.5m connection cable

73310B1

Radio call set with bracelet transmitter



Radio call set with bracelet transmitter for mobile call release in resident's rooms. After call actuation, the call is transmitted to the radio receiver, which is connected to the nurse call system via a 7-pin plug.

Technical data

Dimensions (WxHxD)

Power supply

(bracelet transmitter) 3 V battery (included) (radio receiver) 12 - 35 V DC or 12 - 30 V AC (bracelet transmitter) 32 x 53 x 17 mm (radio receiver) 63 x 110 x 25 mm

Features

- 1 single channel bracelet transmitter with confirmation control (red LED)
- 1 radio receiver with 7-pin plug for call unit and 0.5m connection cable



bracelet transmitter, radio receiver, battery

73310C1

Radio transmitter as 1-channel handheld transmitter with confirmation control (red LED).

Technical data

12 V battery Power supply Dimensions (WxHxD) 32 x 53 x 17 mm



radio handheld transmitter, battery

73310D1

Bracelet transmitter for radio call set (accessories)



Radio transmitter as 1-channel bracelet transmitter with confirmation control (red LED).

Technical data

Power supply 3 V battery Dimensions (Ø) 35 mm Dimensions (WxHxD) 32 x 53 x 17 mm



radio bracelet transmitter, battery

73310E1





Radio receiver with 7-pin plug for call unit and 0.5 m connection cable.

Technical data

12 - 35 V DC or 12 - 30 V AC Power supply Dimensions (WxHxD) 63 x 110 x 25 mm

7608985



Scanner module for disorientated people system



Scanner module for the disorientated people system for detecting alarms and transmitting them to the nurse call system. One output is monitored via the scanner module and the alarm detector that is inserted into the patient's sole. In case of alarm, the signal is transmitted to the nurse call system via an electronic module. A receiving antenna is connected to the scanner module.

Technical data

Version Wandmontage Power supply 24 V DC Dimensions (LxWxH) 205 x 115 x 50 mm

Accessories

Alarm detector (breaker) for desorientated people system 7608986 7608987 Alarm detector (breaker) for desorientated people system

7608986

Alarm detector (breaker) for disorientated people system



The alarm detector (breaker) for the disorientated people system is inserted into the sole of the person who needs to be protected. Alarms are actuated via the scanner module. The 7608986 alarm detector is suitable for maximum door widths of 3m.

Technical data

Dimensions (BxH)

46 x 46 mm

7608987



Alarm detector (breaker) for disorientated people system



The alarm detector (breaker) for the disorientated people system is inserted into the sole of the person who needs to be protected. Alarms are actuated via the scanner module. The 7608987 alarm detector is suitable for maximum door widths of 2m.

Technical data

Dimensions (BxH)

28 x 37 mm

Additional Components

Display Units for Installation in Corridors

72569C

Corridor lamp CL130 with 3 lamp cells



The corridor lamp is connected to the room terminal or it serves as a parallel indicator for the electronic module.

Technical data

Class of protection Installation Colour

Dimensions (WxHxD)

surface mounting

IP 40

semicircular lamp cover, white, translucent

158 x 110 x 87 mm



corridor lamp, lamp (bulb)

Accessories

72569Z2 Connection board for corridor lamps CL13x/14x, grey 72569Z4 Connection board for corridor lamps CL13x/14x, white

72569CL

Corridor lamp CL131 with LED technology with 3 lamp cells



as 72569C, but with power-saving LED technology and with long life span.

Accessories

Connection board for corridor lamps CL13x/14x, grey 72569Z2 72569Z4 Connection board for corridor lamps CL13x/14x, white

72569D

Corridor lamp CL140 with 4 lamp cells



The corridor lamp is connected to the room terminal or it serves as a parallel indicator for the electronic module.

Technical data

Class of protection Installation

IP 40 surface mounting

Colour semicircular lamp cover, white, translucent

Dimensions (WxHxD) 158 x 110 x 87 mm



corridor lamp, lamp (bulb)

Accessories

72569Z2 Connection board for corridor lamps CL13x/14x, grey 72569Z4 Connection board for corridor lamps CL13x/14x, white

72569DL

Corridor lamp CL141 with LED technology with 4 lamp cells



as 72569D, but with LED technology

Accessories

72569Z2 Connection board for corridor lamps CL13x/14x, grey 72569Z4 Connection board for corridor lamps CL13x/14x, white

Additional Components

72569Z4



Technical data

white RAL 9016 Colour Material PC + ABS-FR Dimensions (HxWxD) 158 x 110 x 35 mm

72569Z2

Connection board for corridor lamps CL13x/14x, grey

as 72569Z4, but grey

Technical data

Colour grey, RAL 7040

72555B1





Corridor lamp for homelike ambiance, with LED technology with 2 lamp cells, suitable for installation in a circular fm backbox.

Technical data

Type of protection

IP 40

Colour

cover plate: white - RAL 9016 LEDs: red, green

Weight Fixation 67 g in flush mount box, DIN 49073

Installation depth Dimensions (WxHxD) 25 mm 71 x 10 x 71 mm

corridor lamp, cover plate, mounting frame

Accessories

18971A fm backbox

72555C1



Small corridor lamp CL130 with LED technology (white/red/green)

as 72555B1, but with 3 lamp cells

Technical data

Colour LEDs: red, white, green

72555D1



Small corridor lamp CL231 with LED technology (red/green/yellow)

as 72555C1, but

Technical data

Colour LEDs: red, yellow, green

72556D1

LED corridor lamp CL340 silver





Stylish LED lamp (optionally with name plate) as a corridor lamp with LED technology for the highest architectural demands. 180 degree mounting also possible with LED lamp. The colour sequence remains the same due to the lamp insert which is also rotatable. Usage of an optional name plate is possible. Optionally with or without lighting element for illumination of the name plate.

Technical data

Colour LED's white, red, green, yellow

Installation on sm installation box or directly on the wall

Dimensions (WxHxD) 120 x 110 (119) x 30 (42.4) mm

72556S1



Name plate for LED corridor lamp CL340





Can be installed individually as well as in connection with the LED corridor lamp. The labelling is easy to create and is exchangeable. The removal of the label is carried out by removing the transparent cover.

120 x 108 x 30 mm

Technical data

Dimensions (WxHxD)

72556L1





as optional lighting element for the LED lamp name plate



72515A4

Zone indicator lamp with 1 lamp, neutral, white



It is tailored to the corridor lamp design. It provides with one lamp cell for each lamp cover.

Technical data

Class of protection Installation

surface mounting

Colour

plastic base white RAL 9016 lamp cover white, translucent

base plate white - RAL 9001 Dimensions (WxHxD) 158 x 110 x 87 mm

zone indicator lamp, plastic base, base plate, lamps

Accessories

Labelling set for zone indicator lamp, 35 mm (accessories) 72515Z1 72515Z2 Labelling set for zone indicator lamp, 50 mm (accessories)

Additional Components

72515A1

Zone indicator lamp with 1 lamp, neutral, grey



as 72515A4, but

Technical data

Colour plastic base grey RAL 7040

72515B4

Zone indicator lamp with 2 lamps, neutral, white

as 72515A4, but with 2 lamps

Technical data Dimensions (WxHxD)

158 x 220 x 87 mm

72515B1

Zone indicator lamp with 2 lamps, neutral, grey

as 72515B4, but

Technical data

Colour plastic base grey RAL 7040

72515C4



Zone indicator lamp with 3 lamps, neutral, white



as 72515A4, but with 3 lamps

Technical data

Dimensions (WxHxD)

72515C1



Zone indicator lamp with 3 lamps, neutral, grey

as 72515C4, but

Technical data

Colour

plastic base grey RAL 7040

158 x 330 x 87 mm

Additional Components

72515D4



Zone indicator lamp with 4 lamps, neutral, white



as 72515A4, but with 4 lamps

Technical data

Dimensions (WxHxD)

158 x 440 x 87 mm

72515D1



Zone indicator lamp with 4 lamps, neutral, grey

as 72515D4, but

Technical data

Colour

plastic base grey, RAL 7040

72515E4



Zone indicator lamp with 5 lamps, neutral, white



as 72515A4, but with 5 lamps

Technical data

Dimensions (WxHxD)

158 x 550 x 87 mm

72515E1



Zone indicator lamp with 5 lamps, neutral, grey

as 72515E4, but

Technical data

Colour

plastic base grey, RAL 7040

72515Z1



Labelling set for zone indicator lamp, 35 mm (accessories)



Inscription set in sticker form with numbers and letters with a height of 35 mm. Contains the numbers 0-9 as well as the letters "EG", "OG", "DG". Symbol and direction arrows, Telephone, Fire.



Contains 2 sets each

72515Z2



Labelling set for zone indicator lamp, 50 mm (accessories)

as 72515Z1, but with a height of 50 mm.

Additional Components

Additional Indicator Lamp Units

88894A



Bulb - transparent -

Spare bulb for electronic modules room and corridor lamps.



Technical data

Power supply Colour

24 V/3.5 W white

88894B





as 88894A, but red

Technical data

Colour

88894C





as 88894A, but green

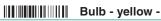
Technical data

Colour

green

red

88894D





as 88894A, but yellow

Technical data

Colour

yellow

88894AL



LED - transparent - (5 pcs)

LED lamp to equip a normal electronic module with LEDs.

Technical data

Colour

transparent



Additional Components

red

green

yellow

as 88894AL, but red

Technical data Colour



88894CL

88894BL

as 88894AL, but green



Technical data

Colour



88894DL



as 88894AL, but yellow



Technical data

Colour



89870E1





88893AV

Dummy plate (package unit 5 pcs)





5 pcs

Additional Components

Accessories

73120A

Programme selector for radio programmes



Programme selector with fm supporting plate and expanding / retaining clamps suitable for fm backboxes.

Technical data

Class of protection IP 40, when installed incl. according cover plate

in flush mount box, DIN 49073 Installation

Installation depth 25 mm Dimensions (WxH) 71 x 71 mm

Accessories

88912H3 Cover plate for programme selector

Features

• 1 programme selector for 5 radio programmes

88912H3

Cover plate for programme selector



Technical data

Colour white RAL 9016 Material PC + ABS - FR

Accessories

88914A3 Mounting frame for cover plates (single) 88914B3 Mounting frame for cover plates (double) 88914C3 Mounting frame for cover plates (triple)

73120H



Radio unit with volume control and headphone jack



Radio unit with volume control and jack for connecting headphones, with fm supporting plate and expanding / retaining clamps for installation in fm backboxes.

Technical data

Class of protection IP 20, when installed incl. according cover plate Installation in flush mount box, DIN 49073

Installation depth 25 mm Dimensions (WxH) 71 x 71 mm

Accessories

88912K3 Cover plate for radio unit

Features

- 1 volume control
- 1 phone jack for connecting dynamic headphones

88912K3

Cover plate for radio unit



Technical data

Colour white RAL 9016 PC + ABS - FR Material

Accessories

88914A3 Mounting frame for cover plate (single) 88914B3 Mounting frame for cover plate (double) 88914C3 Mounting frame for cover plate (triple)

Additional Components

89760B



Headphones for patient handset and radio unit with volume control.

Technical data

32 Ohm Impedance Capacity max. 0.1W 0.05 W Input voltage Transmission range 40 Hz - 15 Hz Weight 45 g

Accessories

89760BZ Spare foam pads

Features

- 1 adjustable headband
- 2 foam -padded earpieces
- 1.8 m connector cable

89760C



Earphones with right-angle plug



Headphones with right-angle plug for connection to clino phon 99 patient handsets and clino com 21 patient handsets and terminals.

Technical data

Impedance 32 Ohm max. 0.1 W Loading capacity Transmission 40 Hz - 15k Hz Weight 45 g

Accessories

89760BZ Spare foam pads

Features

- 1 adjustable headband
- 2 foam pads
- 1.8 m connection cable
- 1 stereo right-angle plug (3.5 mm)

74096D



Cable fixing clip for mobile call units (attached to trapeze bar)





Cable fixing clip for patient handsets and patient terminal (attached to trapeze bar)

71186GV



Telephone interface unit for 35 mm mounting rail





Telephone interface unit with TAE 6N plug with time delay. For connection to telephone network (ZZF approved) as well as with a change-over contact. 230V AC power supply.

Technical data

Operating voltage 230 V AC IP 40 Class of protection Colour grey Dimensions (WxHxD) 35 x 68 x 60 mm

79

72631A1

||||||||||||||||| Actuator unit AE230-3 (3 contacts 230 V AC)



Actuator unit for control of operations on the 230 V power supply system according to EM60669 Part 1 + 2 (VDE0632). In connection with the actuator unit, a maximum of 3 light sources or other electric devices can be controlled via various terminal devices (i.e. patient terminal, patient handset, multiple push-button). The actuator unit is equipped with a separate input for an autarkic push-button (i.e. lamp push-button). The actuator unit is connected via the actuator databus (POF synthetic fiber) i.e. to the bed module or also the room terminal and controlled by this superordinate unit. Multiple actuator units can be cascade-connected, so that a maximum of 7 switching contacts can be used.

Technical data

Installation surface, flush and cavity-wall mounting

Colour white RAL 9016
Material PC + ABS - FR
Class of protection IP 40
Connection lead max. 10 m (LWL)

Operating voltage 230 V AC
Contact load 230 V AC, 5 A total
Dimensions (LxWxH) 142 x 78.5 x 30.5 mm

Accessories

89582B2 fm backbox, double / triple 89582C2 Cavity wall backbox, double / triple

72631B1

Actuator unit AE230-2 (2 mutually contacts 230 V AC)



Actuator unit with 2 interlocking contacts for control of operations on the 230 V power supply system, specially designed for controlling motors i.e. blinds. In connection with the actuator unit, a maximum of 1 motor can be controlled via various terminal devices (i.e. patient terminal, patient handset, multiple push-button). The actuator unit is equipped with two separate inputs for autarkic push-buttons (i.e. control push-button). The actuator unit is connected via the actuator databus (POF synthetic fiber) i.e. with the bed module or also the room terminal and controlled by this superordinate unit. Multiple actuator units can be cascade-connected, so that a maximum of 7 switching contacts can be used.

Technical data

Installation surface, flush and cavity-wall mounting

Colourwhite RAL 9016MaterialPC + ABS - FRClass of protectionIP 40Connection leadmax. 10 m (LWL)Operating voltage230 V ACContact load230 V AC, 3ADimensions (LxWxH)142 x 78.5 x 30.5 mm

Accessories

89582B2 fm backbox, double / triple 89582C2 Cavity wall backbox, double / triple



Actuator unit AE230-2 free (2 floating contacts)



Actuator unit with 2 floating contacts for control of operations up to 30 V AC/DC. The device's necessary control voltage has to be fed in externally . The contacts can be controlled via various terminal devices (i.e. patient terminal, patient handset, multiple push-button). Additionally, there are two separate inputs for autarkic push-buttons (i.e. control pushbutton) available. The actuator unit is connected via the actuator databus (POF synthetic fiber) i.e. to the bed module or also the room terminal and controlled by this superordinate unit. Multiple actuator units can be cascade-connected, so that a maximum of 7 switching contacts can be used.

Technical data

surface, flush and cavity-wall mounting Installation

Colour white RAL 9016 PC + ABS - FR Material IP 40 Class of protection max. 10 m (LWL) Connection lead

Operating voltage 230 V AC 30 V (AC/DC), 3 A Contact load Dimensions (LxWxH) 142 x 78.5 x 30.5 mm

Accessories

fm backbox, double / triple 89582B2 89582C2 Cavity wall backbox, double / triple

72631C1



Actuator unit AE24-3 (3 contacts 24 V DC)



Actuator unit with 3 contacts for control of operations at 24 V DC. In connection with the actuator unit, a maximum of 3 contacts can be controlled via various terminal devices (i.e. patient terminal, patient handset, multiple push-button). The actuator unit is equipped with an input for autarkic push-buttons (i.e. control push-button). The actuator unit is connected via the actuator databus (POF synthetic fiber) i.e. to the bed module or also the room terminal and controlled by this superordinate unit. Multiple actuator units can be cascade-connected, so that a maximum of 7 switching contacts can be used.

Technical data

surface, flush and cavity-wall mounting Installation

white RAL 9016 Colour Material PC + ABS - FR Class of protection IP 40 Connection lead max. 10 m (LWL) Operating voltage 24 V DC 24 V DC, 3 A Contact load Dimensions (LxWxH) 142 x 78.5 x 30.5 mm

Accessories

89582B2 fm backbox, double / triple 89582C2 Cavity wall backbox, double / triple

89850K1



Intermediate frame



Intermediate frame with central insertion hole (ø 45 mm) for installation devices in accordance with DIN 49075, suitable for mounting frames.

Technical data

Material plastic moulding material white - RAL 1013 Colour Dimensions (WxH) 69 x 69 mm

Accessories

89849F1 fm cover frame single, white RAL 1013

Additional Components

89849F1

Fm cover frame (single /1013), suitable for cover plates and intermediate frames (69x69 mm).

Technical data

Material ABS

Colour white - RAL 1013 (F1) or white - RAL 9016 (F3)

Dimensions (WxHxD) 81 x 81 x 6,5 mm

Installation Accessories

88914A3



Frame for cover plates (single)



Colour white RAL 9016 Material PC + ABS - FR Dimensions (WxH) 81 x 81 mm

88914B3



Frame for cover plates (double)



Technical data

white RAL 9016 Colour Material Pc + ABS - FR Dimensions (WxH) 81 x 152 mm

88914C3



Frame for cover plates (triple)



Technical data

Colour white RAL 9016 PC + ABS - FR Material Dimensions (WxHxD) 81 x 223 mm

88915A3



Surface mount base (single)



Technical data

Colour white RAL 9016 Dimensions 81 x 81 x 20.2 mm Material PC + ABS - FR

Material zinc-coated sheet steel



88915D3

88915C3

Surface mount base (triple)



Technical data

Surface mount base (double)

Technical data

Dimensions (WxHxD)

Colour

Material Dimensions (HxWxD)

white RAL 9016 zinc-coated sheet steel 227 x 85 x 30 mm

white RAL 9016

85 x 156 x 20.1 mm

88910B3



Standard plate with insertion hole in accordance with DIN 49075.

Technical data

white RAL 9016 Colour Material PC + ABS - FR

Accessories

88914A3 Mounting frame for cover plate (single) 88914B3 Mounting frame for cover plate (double) 88914C3 Mounting frame for cover plate (triple)

18971A





Backbox in accordance with DIN 49073, suitable for all installation units with expanding / retaining clamps.

Technical data

Material insulator Dimensions (ØxD) 58 x 40 mm

18971B





Cavity wall backbox for wood, plaster, and other cavity walls.

Technical data

Material Installation Dimensions (ØxD) thermoplastic, flame-retardant

cente: 60 mm 71 x 65 mm

Additional Components

18972AV

Flush mount combination box with extruded plaster cover



Flush mount combination box with extruded plaster cover for masonry with plaster adjustment (+ 15mm).

Technical data

Material insulator Installation centre: 60 mm Dimensions (WxHxD) 71 x 71 x 55 mm

18976A

Cavity wall combination box



Combination box for cavity wall installation in wooden, plaster, and other cavity walls.

Technical data

Material thermoplastic, flame resistant Installation centre: 60 mm Dimensions (WxH) 81 x 71 mm

89582B2

Fm backbox, double / triple



89582C2

Cavity wall backbox, double / triple



88899A

Additional fastening for top-hat rail mounting



Additional fastening for top-hat rail mounting the following devices:

- zone control unit
- paging interface unit
- printer interface unit
- PC interface unit
- devices in the same housing

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